JOURNAL

of the

AMERICAN VETERINARY

MEDICAL ASSOCIATION

Index for Volume 186

No. 1-12 January-June, 1985

Published by

AMERICAN VETERINARY MEDICAL ASSOCIATION

930 N MEACHAM RD, SCHAUMBURG, IL 60196

Index to Names

CONTRIBUTORS

Aanes, Wilbur A., 265, 1038
Adams, Scott, 391
Adams, Stephen B., 270
Adamson, Peter J. W., 1219
Addison, Jay D., 1195
Aguirre, G. D., 281
Ainsworth, A. Gerald, 166
Albers, Gregory W., 492
Amis, Terence C., 80, 377
Anderson, Bruce C., 391
Anderson, John F., 955
Anderson, Lorel K., 162
Andries, James K., 498
Archer, Michael, 984
Ardans, Alex A., 59, 67
Aron, D. N., 1095
Artsob, Harvey, 389
Atwell, John K., 883
Auer, Joerg, 803

Bagley, C. V., 798
Baker, John C., 387
Baldwin, B. H., 1090
Barclay, William P., 278
Barsanti, Jeanne A., 686
Baum, Karen H., 170
Bayly, W. M., 280, 1210
Becht, James L., 1317
Behrendt, M. D., 783
Bennett, R. Avery, 812
Beroza, Gregory A., 1204, 1304
Biberstein, Ernst L., 593, 1086
Binnington, Brian D., 389
Birchard, S. J., 75
Bjotvedt, George, 567
Blenden, D. C., 5
Blevins, Donn I., 321, 1141
Blevins, William E., 270, 1311
Bolin, S. R., 568
Boudrieau, R. J., 75, 1198
Bowen, R. A., 783
Bowen, Vaughan, 708
Bramlage, L. R., 565
Braund, Kyle G., 138, 495
Breazile, James E., 587
Breider, M. A., 809
Breitschwerdt, Edward B., 975
Bristol, F. M., 252
Brown, C. M., 965
Brown, M. P., 570
Brown, Nancy O., 56
Brown, Scott A., 686
Brugh, Max, 277
Bulgin, Marie S., 391
Burgdorfer, Willy, 465
Bywater, Anthony C., 240

Calvert, Clay A., 1097
Campbell, Karen L., 176
Cantwell, H. D., 174
Carlson, Gary P., 593, 1294
Carson, Robert L., 1291
Casteel, Stan W., 988, 1084
Castro, Gabriel B., 507
Cavagnolo, Robert, 465
Caywood, Dennis D., 698, 971
Center, Sharon A., 364, 1090
Chambers, Jonathan M., 1315
Chandler, Francis W., 705, 975
Charles, Robert, 1204
Chew, D. J., 1323
Chiapetta, James R., 387
Chinn, D. Richard, 806
Cho, Doo Youn, 975
Codner, Ellen C., 166
Colahan, Patrick T., 85, 570
Colbern, Gail T., 265, 1038
Collins, J. E., 789
Collins, Trevor J., 977
Conroy, J. D., 72
Cook, Cynthia S., 505
Cook, William O., 988, 1084
Coria, M. F., 568
Cosnow, Allen, 760
Coulter, D. B., 710
Couto, C. Guillermo, 681, 762
Craig, James A., 1100
Crawford, Lester M., 4
Crowe, J. T., 540
Crowell, Wayne A., 686
Crowell-Davis, S. L., 381
Cummings, Earlice, 1202

Dalley, J. B., 181
Daniels, George, 1084
Day, F. G., 1035
Day, James W., 124
Dean, Donny J., 670
Dean, Paul W., 1111
deLahunta, A., 1090, 1213
Derksen, F. J., 965
Desai, Dina, 705
Devine, Theresa, 365
DiBartola, S. P., 1323
Dietze, A. E., 1090
Dillberger, J. E., 74, 540
DiPietro, J. A., 262
Divers, Thomas J., 604, 1317
Donawick, William J., 1304
Dorn, C. Richard, 1281
Dougherty, James F., 157
Dubey, J. P., 969
Ducharme, N. G., 1297
Duelke, Barry, 391

Edwards, J. F., 809
Ellersieck, M. R., 580
Embertson, R. M., 565, 570
Engelkirk, P., 1103
Evans, John E., Jr., 78, 1327
Evans, Loren H., 604
Evinger, Joan V., 174
Eyster, George E., 162

Falcon, Jorge, 593
Fallon, Ron K., 710
Fanton, John W., 1221
Feeney, Daniel A., 387, 698
Feldman, Bernard F., 1039
Fellenbaum, Stanley, 1144
Ferguson, Duncan C., 693
Fertig, Dana L., 1281
Fetrow, John, 792
Fischer, A. T., 1294
Fleming, Sherrill A., 986
Fletcher, Oscar J., 1107
Foerner, Joseph J., 278
Foil, Carol S., 702
Foreman, J. H., 1210
Fossum, T. W., 75
Fox, Michael W., 123, 212, 778
Freeman, Kathy P., 359
French, Dennis D., 1105
Fubini, S. L., 1297

Gaber, C. E., 377
Galligan, David, 792
Gallina, A. M., 601
Gates, C. E., 789
Gaunt, Stephen D., 355
Gentile, Dennis G., 390, 853, 1204
Giger, Urs, 479
Gipson, T. A., 580
Glickman, Lawrence T., 58
Goldschmidt, Michael H., 157
Goodger, William J., 240, 370
Goodness, Paul, 1204
Gordon, Bruce R., 691
Gordon, J. C., 695
Gorman, Neil T., 479
Grain, E., Jr., 78, 1327
Granstedt, M. E., 570
Green, R. A., 485
Greene, Craig E., 465
Greene, R. T., 485
Griffin, Craig E., 59, 67
Griffiths, A. O., 1262
Grimes, James E., 1075

Hackett, R. P., 1294
Hammerslag, K. L., 179
Hamory, B., 5
Hannah, Harold W., 32, 235, 458, 666, 874, 1166
Hardie, Elizabeth M., 1315
Hardy, Robert M., 978
Harmon, B. G., 983
Harrison, I., 980
Hart, Benjamin L., 249, 1175, 1181, 1192
Hart, Lynette A., 1181
Hayden, David W., 81
Haynes, Peter F., 703, 1105
Heider, L. E., 1071
Heidner, Greta L., 176
Held, Jean-Pierre, 1215
Helman, R. G., 1100
Hembrough, Frederick B., 153
Henry, Steven C., 986
Herd, R. P., 1071
Herring, D. S., 590
Hill, Joseph E., 981
Hinrichs, K., 390, 853
Hirsh, Dwight C., 1086
Hohn, R. B., 1198
Holmberg, David L., 708
Holmes, Robert A., 1063
Hosie, Suann, 1300
Hsu, Walter H., 153, 320, 541
Hubbell, John A. E., 161, 374, 651
Hudson, Robert S., 1291
Huebner, Spencer A., 89
Hull, Bruce L., 170
Hulse, Donald A., 49
Hurov, L., 504
Hurtgen, J. P., 390, 853
Hurvitz, Arthur I., 691
Husted, P. W., 783
Hylton, Walter E., 1099

Ihrke, Peter J., 43, 59, 67
Indiveri, Mary C., 1086
Irby, N. L., 281

Jackson, Robert K., 762
Jacobs, R. M., 1313
Jakowski, R. M., 1320
James, Eric R., 1202
Jang, Spencer S., 1086, 1219
Jann, H. W., 711
Johnson, J. Thomas, 778
Johnson, K. L., 1320
Johnson, Michael E., 1080
Johnson, R. P., 149
Johnston, Gary R., 698
Joo, Hans S., 1080
Josephson, Gaylan K. A., 171

Kabel, A. L., 485
Kadlec, Robert, 1084
Kaeberle, Merlin L., 801
Kallet, A. J., 67
Kaplan, William, 975
Karl, Michele L., 508
Karns, Phillip A., 1180
Kaswan, Renee L., 83, 760
Kaufmann, Arnold F., 955
Kazacos, Kevin R., 174
Kearney, Mike T., 49
Kern, Thomas J., 489
Kester, Wayne O., 888
Kiely, R. G., 809
Kindler, Roger A., 123, 778
King, Lonnie J., 35
King, Nelson B., 236
Kirkbride, C. A., 789
Kirker-Head, Carl A., 1215
Kirkpatrick, Carl E., 1319
Kittleson, Mark D., 162
Klide, Alan M., 1140
Knowlen, Grant G., 162
Koblik, P. D., 711, 1320
Kornblatt, Arnold N., 960
Kramek, Betty Ann, 81, 698, 971
Krook, Lennart, 284
Kruth, Stephen, 708
Kuehn, Ned F., 355
Kunkle, G. A., 677

Lattimer, Jimmy, 710
LeCouteur, R. A., 377
Leids, Pepi F., 183
Leifer, Connie E., 53, 288, 691
Lenhard, Andrea, 70
Lieberman, Leo L., 955
Lindemann, B., 1101
Lindsay, M., 1103
Line, Scott W., 249
Ling, Gerald V., 43
Lipscomb, Thomas P., 762
Lipson, M. P., 1038
Little, C. B., 993
Lindsay, David S., 981
Lloyd, K. C. Kent, 600, 980

Loar, A., 288
Lock, T. F., 262
Loeffler, Diana, 1215
Lofstedt, J., 1320
Lomax, Larry G., 981
Longhofer, Susan L., 762
Loomis, Michael R., 47
Losonsky, John M., 1097
Lothrop, Clinton D., Jr., 47
Lu, Zheng-Xing, 153
Lynch, John A., 389
Lynch, Michael J., 177
Lyndes, Laura, 183
Lynn, Byron Stephen, 981

MacEwen, E. Gregory, 56
MacMillan, Alan, 505
Madison, John B., 792
Magnarelli, Louis A., 955
Mahaffey, Mary B., 1095, 1315
Maher, J. M., 583
Marcella, K. L., 179
Markel, Mark D., 573
Martin, Charles L., 83, 760
Massey, J. W., 580
Mathey, W. J., 123
Matthews, James A., 806
Matthews, N. J., 798
Matthews, N. S., 1213
Matthiesen, David T., 157
Matus, Robert E., 53, 288, 691
May, Jeffrey C., 177
Maze, Mervyn, 648
McAnulty, J. F., 1217
McCaw, Dudley, 710
McClure, Jill J., 1195
McClurkin, A. W., 568
McDougall, Doug, 398
McIlwraith, C. Wayne, 1186
McNeel, S. V., 541
Mero, Kendall N., 257
Milcarsky, Judith, 677
Miller, Craig W., 708
Miller, L. M., 601
Miller, Michael F., 1175
Miller, Richard I., 473, 703, 984, 1105, 1195
Millichamp, Nicholas J., 479
Mitchell, J., 370
Moll, H. David, 1301
Montavon, P. M., 1198
Moore, Frances M., 705
Morris, Debra Deem, 600
Morton, Daniel, 804
Mount, Michael E., 1038
Muir, William W. III, 374, 651
Murphy, J. P., 1297
Murray, M. J., 381
Murtaugh, R. J., 1313
Myers, Ronald K., 806

Nagle, Albert C., 1259
Nehay, J., 370
Neilsen, J. N., 1058
Nelson, W. O., 558
Nett, T. M., 783
Norton, Anne L., 43

O'Brien, Dennis P., 1207
O'Brien, Peter J., 432
O'Brien, Timothy D., 971
O'Brien, Timothy R., 593
Olcott, Bruce M., 984
Olivier, N. Bari, 162
Olsen, Glenn H., 702
Olsen, John H., 47
Olson, Leonard C., 125
Olson, P. N., 783
Osweiler, Gary D., 1084
Ortenburger, A. I., 609
Owens, William R., 703

Padgett, G. A., 1101
Page, E. H., 989
Page, R., 288
Palmer, G. H., 601
Panigrahy, B., 983
Pankowski, R., 280
Paskett, M. E., 798
Patnaik, Amiya K., 53, 56
Peterson, Mark E., 53
Patterson, Jon S., 499
Peacock, Marius G., 465
Peiffer, Robert L., 505
Perry, Leslie R., 1259
Peyton, L. C., 570
Pharr, John W., 708
Philip, Robert N., 465
Phillips, Thomas N., 278
Poffenbarger, Ellen M., 978
Poonacha, K. B., 700
Porter, David B., 1144
Povey, R. C., 149
Powe, T. A., 588
Powers, R. D., 588
Pue, H. L., 695
Purohit, Ram C., 1291

Qualls, Charles W., Jr., 975

Ramey, David W., 283
Ramirez, M., 179
Rand, Jacqueline S., 432
Reed, S. M., 565, 601
Reid, Byron V., 385
Reinertson, Eric L., 283, 853
Render, James A., 1311
Reuter-Dallman, V., 262
Richardson, Dean W., 385, 390, 573, 853, 1317
Rigg, Dale L., 283, 852
Riggs, M., 280
Rings, Reed W., 433
Ritchie, A. E., 789
Roach, W. A., 29
Roberts, Royce E., 166
Robertson, J. T., 590
Roeder, Beverly L., 291
Rosenkrantz, Wayne, 505
Roszel, Jeffie F., 359
Rousseaux, Colin G., 1099
Roussel, A. J., Jr., 1310
Rowland, G. N., 1095
Rudd, R. G., 1217
Ruhr, Lawrence P., 498
Rusley, Mark S., 499
Russo, Elizabeth A., 485, 812
Rutgers, H. C., 695

Sams, R. A., 1323
Sanders, Linda, 249
Sanford, S. Ernest, 171, 393
Scarratt, W. Kent, 977
Schmidt, Gretchen M., 705
Schneider, R. K., 570
Schrader, Lee A., 691
Schuerger, Raymond J., 125, 778
Schultz, Kevin T., 1107
Schumacher, John, 1301
Schwink, Kay, 1039
Scott, E. A., 383
Sexton, P. E., 252
Shamis, L. D., 803
Shelly, Edward A., 1319
Sherman, D. M., 993
Shideler, R. K., 583
Shires, Peter K., 49
Shulaw, William P., 320
Shultheiss, Patricia C., 811
Simpson, Stephen T., 495
Slatter, Douglas H., 27
Slocombe, R. F., 965
Slocum, Barclay, 365
Slusher, Steven H., 359
Smith, Bradford P., 593
Smith, Christopher M., 648
Smith, D. F., 1297
Smith, Mark M., 1286
Smith, O. L., 1101
Smith, Pat, 370
Smithcors, J. F., 801
Snider, Theron G. III, 703
Snyder, W. E., 320
Solorzano, Robert F., 1080
Spackman, Claire J. A., 81
Spano, Joseph S., 1301
Spier, Sharon, 1294
Sponenberg, D. Phillip, 977
Squires, E. L., 583
Stamper, R. D., 700
Stannard, Anthony A., 43, 59, 67
Stanton, Marylynn E., 1311
Stashak, Ted S., 257, 265, 1038, 1186
Steckel, Robert R., 270, 711
Steere, Allen C., 960
Stenquist, N. J., 798
Stick, J. A., 609
Stilson, A. E., Jr., 590
Stone, Elizabeth A., 157
Straw, Barbara E., 986
Stunkard, Jim A., 964
Sullins, Kenneth E., 257

Tarr, M. J., 1323
Tennant, B. C., 1090
Thawley, David G., 1080
Theilen, Gordon H., 492
Thomas, N., 280
Thurmond, M., 370
Todd, K. S., Jr., 262
Todhunter, R., 383
Topkis, Virginia A., 1304
Torres-Anjel, M. J., 5
Tracy, C. H., 540
Trapp, A. L., 181
Traub-Dargatz, J., 280
Trent, Ava M., 284
Tulleners, Eric P., 385, 604, 980, 1317
Turk, Margaret A. M., 702

Urband, Paul H., 960

Valentine, Beth A., 177
van den Bogaard, A. E. J. M., Jr., 990
Vitums, A., 1210
Vogt, D. W., 580
Voss, J. L., 583

Walker, Michael, 1100
Walter, Mary C., 157
Ward, Douglas S., 1310
Warner, Ann, 183
Wass, Wallace M., 90
Waters, David J., 1111
Waters, Edwin H., 171
Weidema, W. F., 990
Weidner, J. P., 1210
Weisbrode, Steven E., 170
Werner, Linda L., 479
West, R. L., 1180
Wheaton, Lynn G., 1311
Wheeldon, Eric B., 80
Wheeler, S. L., 783
Whitney, George D., 955
Willard, M. D., 72, 86, 181
William, P. D., 700
Williams, J. F., 1101, 1103
Willits, Neil H., 1286
Wilson, James F., 214
Wise, J. Karl, 84, 395, 605, 1108
Wolf, C. B., 993
Wolfe, Dwight F., 1291
Wood, Kenn, 398

Yovich, John V., 1186

Zachary, James F., 499, 1207
Zamora, C. S., 1210
Zontine, William J., 78, 1286
Zuckerman, Leon, 778

PERSONALS

Acor, Geneva Keene, 450
Adams, H. Richard, 554
Alexander, Joseph, 864
Allam, Mark W., 23, 867
Allen, Al, 452
Allen, Kent, 226
Anderson, Richard, 1271
Anderson, Warren, 21
Anthony, Russell, 453
Asbury, Atwood, 870
Audin, Janis, 224

Barnes, Donald, 1054
Barnett, David R., 1265
Bellows, Jan, 450
Bennett, Dwight, 452, 1272
Bertelsen, Sandra, 553
Bertone, Alicia, 1044
Beusse, D. O., 450
Blagburn, Byron, 452
Blecha, Frank, 1053
Bojrab, M. Joseph, 553
Bowen, Richard, 1269
Bozeman, William, 553
Bradley, Richard, 656
Breslin, Jack, 553
Brightman, Alan II, 554
Brown, Wayne, 21
Brugger, Michael, 551
Buck, William, 1158
Burdette, K. R., 133
Burridge, Michael, 554
Bush, R. Mitchell, 446

Caley, Homer, 549
Case, Robert, 453
Chang, Douglas, 551
Cheville, Norman, 1158
Chibuzo, Gregory, 20
Clark, J. Derrell, 870
Cohen, Mortimer, 1045
Collins, Michael, 22
Collinson, R. L., 1148
Confer, Anthony, 1158
Conger, Gerald, 549
Craig, Frank, 1275
Crandell, Robert, 221
Creed, James, 554
Cullen, W. Clough, 554
Curtis, Sharon, 1042

Dee, James, 450
Denlinger, Everett, 448
Denny, Marvin, 552
Dickinson, Earl, 869
Dieterlen, Paul, 866
Dykstra, L. A., 1052
Dysert, David, 450

Eckroade, Robert, 448
Edwards, James, 869
Ellis, June, 224
Elsner, Robert, 1158
Ettinger, Stephen, 549
Eugster, A. Konrad, 867
Eyre, Peter, 1269

Featherston, Robert, 547
Foerner, Joseph, 1044
Frankhauser, Rudolf, 867
Freeman, Arthur, 1155

Ganaway, James, 221
Gardner, Wade, 450
Gatz, Earl, 549
Gayle, Lelve, 867
Gillette, Edward, 549
Gilpin, K. W., 773
Glosser, James, 767
Goldman, Richard, 450
Gordon, John, 551
Grimes, George, 227
Grosvenor, Ralph, 866

Haas, Walter, 21
Hagerty, Thomas, 17, 1054
Hammond, Robert, 1053
Hancock, Guy, 450
Hander, Fred, 548
Harwell, James, 1158
Heidelbaugh, Norman, 1275
Helper, Lloyd, 554
Hendrickson, Thayer, 548
Hendrix, Charles, 452
Hidalgo, Richard, 1158
Hightower, Dorsey, 450
Hill, Raymond, 224
Hoblet, Kent, 551
Hoerlein, B. F., 1044
Hofmann, C. Edwin, 552
Hogg, Alex, 1151
Hopkins, A. F., Jr., 867
Houchens, James, 20
Houk, Raymond, 868
Hueston, William, 868
Hutchinson, Lawrence, 448

Iggo, Ainsley, 867

Jackson, William F., 1147
Jarrett, James, 443
Johnsen, Dennis, 547
Johnson, Gerald, 655
Johnson, Lester, 22
Johnson, Rodney, 1152
Jones, J. Richard, 866

Kaplan, Henry, 549
Kay, William, 1147
Kent, Kyle, 772
Klesmer, Richard, 1157
Knirk, Harold, 19
Kolker, R. Patrick, 866
Koltveit, Albert J., 9
Koncal, David, 868
Kopit, Harold, 549
Kornegay, Cecilia (Chris), 772
Kornegay, Joe, 865
Krahwinkel, D. J., 452
Krause, Keary, 1273
Krause, Orville, 19
Kruse, Norman, 869

Lang, C. Max, 554
Laurie, John, 549
Leader, Robert, 1053
Lee, John, 550
Lee, Martha Mae, 550
Leighton, Robert, 1147
Leonard, Paul, 549
Levine, Leonard, 227
Levine, Norman, 21
Lewis, Robert, 867
Liska, Kenneth, 869
Lloyd, Herbert, 443
Lock, Ted, 1272
Low, Donald, 553
Luchsinger, John H., 1014
Lukens, Samuel, 225
Lund, John, 554

MacKenzie, Neil, 774
Mackey, Walter, 1054
Mann, Frank, Jr., 867
Marshak, Robert, 448
Martens, Ronald, 1275
Massey, Joseph, 21
Mayeda, Bryan, 1152
McKiernan, Brendan, 554
Meriweather, Norman, 225
Mikkelson, Clayton, 226
Miller, Donald, 767
Moore, John, 553
Mulder, John, 1158

Nadler, James, 1052
Newman, John, 553
Nielsen, N. Ole, 446
Noordsy, John, 1158

O'Bryen, Paul, 21
Ohno, Susumu, 867
Olsen, Donald, 1147
Olson, Carl J., 11
Olson, Neil, 1053
Osborn, James, 552

Page, Edwin, 866
Paramore, William, 553
Parker, Warren, 450
Peters, Paul F., 861
Pomeroy, Benjamin S., 445
Powell, Edward, 772
Prasse, Keith, 132
Prescott, Peter, 19
Price, Donald A., 225
Pula, Joseph, 1052

Rausch, Robert, 657
Rea, Helen, 768
Rebar, Alan, 452
Reid, Richard, 771
Rhoades, John, 1158
Richardson, Ralph, 452
Roberson, Robbie, 548
Robinson, N. Edward, 870
Roenigk, William, 227
Rosenberger, James, 868
Rossi, Charles, 1053
Rudy, Richard, 1044
Runnels, Lewis, 452
Russell, Leon H., 1265
Russell, Robert J., 1014

Sachtjen, James, 549
Saidla, John, 549, 1147
Schachter, Steven, 450
Schiller, A., 1044
Schiller, Carolyn, 1044
Schmidt, Conrad, 1151
Schwartz, L. Dwight, 448
Secord, Alan, 549
Sessions, Jean, 134
Severin, Glenn, 1147, 1156
Shirk, Marianne, 553
Siegel, Harold, 450
Simmonds, Richard, 1156
Singer, Robert, 133
Skewes, A. R., 133
Small, Erwin, 554, 769
Smith, Patton, 23
Soulsby, Ernest J. L., 23, 867
Spencer, Harold, 773
Sumner-Smith, Geoffrey, 452
Swanson, Richard, 22
Sworts, Dale, 17

Tangner, C. H., 1044
Taylor, Edward, 547
Teigland, M. B., 217
Thayer, Randy, 870
Trefz, William, 549
Turner, Simon, 547

Vail, Charles D., 217
Van Buskirk, Max, Jr., 448
Vorhies, Mahlon, 221

Wafer, William, 226
Waldrip, Donald, 1152
Walker, David, 10
Walker, Jack, 550
Ward, Billy C., 452
Weaver, Leon, 443
Webber, Richard, 549
Weidner, Richard, 868
Wertman, Fred, 1149
Wertman, Mrs. Fred, 1149
West, R. Leland, 9
Williams, Donald, 443
Witter, Richard, 553
Wolf, Morton, 774
Wood, John, 867
Wright, Ronald, 868
Wyckoff, George H., Jr., 18

Zullo, Edward, 1274

DEATHS

Abdelbaki, Yahya Z., 1056
Alexander, Raymond H., 455
Arnold, Dorcas Ann, 872
Arzberger, Walter W., 776

Barton, Robert A., 455
Ball, James G., 1160
Baum, Martin D., 228
Baumann, Gary D., 1276
Beatty, Millard S., 228
Beller, George I., 24
Bierer, Bert W., 1160
Bishop, William W., 556
Boevers, Maurice L., 136
Bowie, Moraine C., 776
Boyd, Arthur G., 1056
Buente, Frederick L., 1056

Campbell, John N., 1276
Christy, Constantine M., 776
Clark, Charles L., 660
Clark, Maurice E., 556
Clark, W. Gregory, 455
Clemens, Nelson E., 136
Cole, Harry L., 1160
Coleman, Charles H., 776
Corcoran, James B., 455
Crispell, Donald H., 455

Deal, Hal R., 455
Diehl, Chester F., 556
Dorwart, Lee E., 136

Eaton, Byron G., 776
Esser, Ruth E., 136

Frey, Richard F., 136

Garlinski, Eugene, 556
Gerner, Kenneth A., 136
Geumlek, Ivan D., 556
Gish, John G., 136
Glenn, Dudley M., 660
Groveman, Mervin D., 136

Haberman, Fred O., 455
Haimbaugh, George D., 872
Hales, Marvin R., 228
Hartzler, Quentin, 1276
Heaton, James W., 556
Heinrich, Cyril L., 136
Herman, Samuel E., 556
Holcomb, Walter B., 136
Holland, W. Carl, 136
Howell, Harold H., 228
Hurov, Leonard I., 776

Jackson, Fay F., 1160
Johnson, Rameau S., 556
Jones, David Owen, 1276
Jones, William G., 556

Karnes, Jacob L., 136
Keith, Richard M., 455
Kelly, Calvin E., Jr., 24
Kelly, Harold M., 776
Kelman, Alva C., 228
King, Robert E., 660
Kiricenkov, Peter, 136
Knilans, Richard J., 556
Krade, Victoria E., 776

Larsen, Osborne G., 1276
Leonard, Milton M., 24
Levitt, David H., 228
Lewis, Timothy R., 1276
Link, Roger P., 1159
Lowe, Robert W., 136

Magaurn, Michael D., 1276
Martin, Dale E., 456
McCanne, Joe R., 136
McClead, Forrest, 1056
McCool, Robert L., 556
McDaniel, Lois S., 228
McKinney, Harry R., 776
Mickelson, Clifford J., 136
Miser, Robert J., 136
Morgan, Robert, 456
Moro, S. Manuel, 456
Morton, Lynus R., 136
Murray, Douglas M., 1056

Negrón Ramos, Benedicto, 556
Nivas, Satish C., 660
North, Billy R., 660

Oliver, Benjamin F., 556
Olson, Harry R., 456
Orebaugh, David G., 136

Orr, Rex, 456
Osburn, Donald C., 1276

Penney, Robert P., 456
Plamondon, Ralph J., 456

Rader, William L. II, 136
Riley, Edward N., 1056
Ripley, W. Allan, 24
Rothrock, Clarence R., 136
Russell, James L., 776

Scott, Ridge L., 556
Scully, John, 660
Seabrooks, Richard H., 136
Sharp, Bruce H., 872
Sharps, Claude W., 1276
Skupnjak, Joseph, 1056
Smead, Harold L., 660
Spencer, Ralph N., 660
Spurgeon, Charles W., 776
Stearns, Joseph T., 136
Stewart, John B., 556

Tanis, John, 1056
Tennant, Harold A., 456
Thomas, Julian H., 456
Trowbridge, William W., 1056
Turner, Nathan A., 1276
Vanniasingham, John, 228

Wadsworth, James R., 456
Wagner, Donald E., 456
Ward, Benjamin F., 456
Westerberg, Herman P., 1160
Whitcomb, O. W., 1276
Wilson, Neil O., 456
Wolfer, John J., 24

Yunker, Charles W., 456

Index to Subjects

A

Abortion—Ovine abortion associated with an anaerobic bacterium, 789

Abscess
- Tracheal compression secondary to abscessation of cranial mediastinal lymph nodes in a horse, 283
- Compressed trachea in a filly, 993
- Use of ^{111}In-labeled autologous leukocytes to image an abdominal abscess in a horse, 1320

Advertising—Council discusses displays in reception rooms and public areas, 1154
Advertising—Council discusses testimonials and endorsements, 1154
AIDS, 34
Albendazole—Control of nematodes in dairy heifers by prophylactic treatments with albendazole in the spring, 1071
Albumin—Hypoalbuminemia-related platelet hypersensitivity in two dogs with nephrotic syndrome, 485
Allergy, Drug—Sulfadiazine-induced allergy in six Doberman Pinschers, 479

Allied Groups
- Court dismisses case against pathologists, 9
- USAHA seeks regulatory changes, 10
- Diplomates elected in microbiology, 11
- WVA bulletin offered, 11
- Fourteen certified in new specialty, 17
- Theriogenologists establish Bartlett Lecture Award, 17
- Avian research grants, 19
- AAHA EXCEL program detailed, 20
- Embryo transfer group to certify programs, 21
- Pathologists install Dr. Prasse as president, 132
- AAEP meets in Dallas, 217
- AALAS honors Dr. Ganaway, 221
- AAVLD presents Pope Award to Dr. Vorhies, 221
- Veterinary specialty organizations, 1984 AVMA activities summary, 334
- Bovine practitioners meet in Des Moines, 442
- Outdoor sports group invites new members, 444
- AAHA journal earns award, 445
- Louisville Zoo hosts zoo veterinarians, 446
- Ophthalmologists admit new diplomates, 446
- WVA seeks donations to fund new projects, 449
- Embryo transfer papers needed, 547
- Woman veterinarian nominations invited, 547
- AAHA regional awards, 549
- International awards nominations invited by World Small Animal Veterinary Association, 551
- Urology society meets, 553
- Autotutorial award offered by ACVPM, 658
- Board discusses allied representation, 860
- Board discusses World Veterinary Association, 861
- Orthopedic society calls for papers, 863
- Papers invited by laboratory diagnosticians, 866
- Diplomates inducted at ACVS meeting, 1044
- Equine sports medicine spurs great interest, 1045
- Sheep-and-goat proceedings available, 1045
- AAHA moves to Denver, 1145
- AAHA's EXCEL program, 1146
- AAHA's five-year computer plan, 1147
- Cardiologists certified, 1148
- AASP meets in Des Moines, 1149
- Case reports invited for ACVO session, 1155
- Academy of dermatology funds research projects, 1271
- Clinical chairmen meet, 1272

Aminopyridines—Effect of xylazine on heart rate and arterial blood pressure in conscious dogs, as influenced by atropine, 4-aminopyridine, doxapram, and yohimbine, 153
Anaplasmosis in bison could affect cattle, 1052
Anemia, Autoimmune—Plasmapheresis as adjuvant therapy for autoimmune hemolytic anemia in two dogs, 691
Anesthesia of the adult hamster, 1290
Anesthesiology—Rate of rise of arterial carbon dioxide tension in the halothane-anesthetized horse, 374
Animal Disease Eradication—Unique characteristics of the National Animal Disease surveillance system, 35
Animal Disease Eradication—Eradicating animal diseases: A twofold benefit for the consumer, 883

Animal Technicians
- Animal technicians, 1984 AVMA activities summary, 332
- Animal technicians and the practice of veterinary medicine, 458
- Board discusses animal technician testing, 858

Aniridia—Congenital aniridia in a pony, 281
Anthelmintics—Ivermectin for treatment of nasal capillariasis in a dog, 174
Anthelmintics—Evaluation of febantel used concurrently with piperazine citrate in horses, 262

Antibiotics
- Bill to limit antibiotics in feed, 30
- Antibiotics in animal feed, 127, 129, 346
- Antibiotics in feed ban, 342
- Antibiotics in animal feed and antibiotic resistance subjects of House hearing, 662
- Gentamicin-associated acute renal failure in the dog, 686
- Board discusses subtherapeutic antibiotics, 859
- Hearing explores whether antibiotic use is imminent health hazard, 877
- Antimicrobial prophylaxis in veterinary surgery, 990

Applications for Membership, 107, 196, 305, 415, 523, 631, 742, 834, 1017, 1122, 1240, 1335
Arthritis—Borreliosis in dogs from southern Connecticut, 955
Arthritis caused by *Borrelia burgdorferi* in dogs, 960
Atherosclerosis—Neurologic manifestations of cerebrovascular atherosclerosis associated with primary hypothyroidism in a dog, 499
Atropine—Effect of xylazine on heart rate and arterial blood pressure in conscious dogs, as influenced by atropine, 4-aminopyridine, doxapram, and yohimbine, 153
Avian Influenza—Highly pathogenic avian influenza, 127, 347

Avian Species
- Thyrotropin stimulation test for evaluation of thyroid function in psittacine birds, 47
- Encephalitozoonosis in a parrot, 700
- Bacterial septicemias in two psittacine birds, 983
- Avian surveillance ends, 1043

Enigmatic psittacine chlamydiosis: Results of serotesting and isolation attempts, 1978 through 1983, and considerations for the future, 1075
Paramyxovirus workshop opens poultry disease conference, 1152

AVMA
Dr. Koltveit appointed editor-in-chief, 9
Dr. West named acting assistant executive vice president, 9
AVMA meets with FDA commissioner, 30
Council discusses division of practice management, 131
Council discusses election of AVMA officers, 132
Committee recommends alternate therapy study, 223
Dr. Audin joins publications staff, 224
Drug Availability Advisory Committee, 1984 AVMA activities summary, 332
AVMA meets with FDA commissioner, 1984 AVMA activities summary, 333
Future AVMA annual meetings, 1984 AVMA activities summary, 339
Leadership conference premiers, 437
Local involvement is prescription for Pet Week success, 440
AVMA manpower committee convenes, 445
Dr. Johnson elected to Executive Board, 655
Board of Governors actions, 655
Euthanasia panel begins its work, 656
Council discusses AVMA convention format and Placement Service, 766
Long-range projects—from specialization to PR, 768
Dr. Small withdraws as presidential contender, 769
Board discusses election of AVMA officers, 858
Board discusses one-day convention registration, 858
Board discusses redistricting proposal, 858
Board discusses legal retainer for FDA work, 859
Board authorizes AVMA staff changes, 859
Board discusses other amendments, 860
New legislative counsel joins Washington office, 861
Board discusses staggered council elections and sunset reviews, 861
Board discusses official AVMA ballots, 861
Board discusses AVMA presidents conference, 861
Sharon Curtis promoted to new AVMA staff post, 1042
Practitioners board recommended for full recognition, 1267
AVMA urged to unite animal welfare groups, 1268

AVMA Activities Summary, 1984, 325
AVMA Council on Biologic and Therapeutic Agents
Council focuses on prescription guidelines, 129
Meetings with FDA and CVM chiefs, 129
Animal biologics legislation, 129
Ethylene oxide standards, 129
Antibiotics in animal feeds, 129
Hypodermic syringe laws, 130
Outdated drugs and biologics, 130
Rabies vaccine requirements, 134
New officers, next meeting, 134
AVMA Council on Education
Council reaccredits two institutions, 220
AVMA Council on Public Health and Regulatory Veterinary Medicine
Sale-barn dilemma concerns council, 1265
Hazardous waste regulations, 1266
Interstate health certificates, 1266
Proposed USDA budget, 1266
Feline leukemia update, 1266
Milk quality standards, 1267
Foreign disease awareness, 1267
Zoonotic disease feature, 1267
AVMA Council on Public Relations
Council unveils public relations goals, 1041
PR for large animal practice, 1041
Pet vaccination brochure, 1042
Feline health media workshop, 1042
Leadership newsletter, 1042
AVMA slide program, 1042
AVMA Council on Research
Benefits derived from research on food animals, 236

AVMA Council on Veterinary Service
Council initiates practice-related projects, 131
Right to dispense drugs, 131
Right to refuse calls, 131
Alternative forms of therapy, 131
Division of practice management, 131
Use of volunteer assistants, 131
Pregnancy in the workplace, 131
Veterinary services in a national emergency, 131
Intensive livestock production, 132
Election of AVMA officers, 132
Cancer brochure, 132
Practice options dominate council agenda, 765
Right to dispense drugs, 765
Extra-label drug prescription, 765
Use of volunteer assistants, 765
Pregnancy in the workplace, 765
IRS vehicle-log rule, 765
Alternate forms of therapy, 765
National poison network, 766
State licensure reciprocity, 766
FeLV-infected cats, 766
Cancer-in-animals brochure, 766
Two resolutions submitted, 766
Milk-quality incentives, 766
Pet health insurance, 766
AVMA convention format and Placement Service, 766
Internal matters, 766

AVMA Executive Board
Board to convene food animal task force, 857
Animal technician testing, 858
Redistricting proposal, 858
Election of AVMA officers, 858
One-day convention registration, 858
Seminar on impairment, 859
Alternate forms of therapy, 859
Appointments, 859
AVMA staff changes, 859
Subtherapeutic antibiotics, 859
Legal retainer for FDA work, 859
AVMA awards, 859
Allied representation, 860
Other amendments, 860
Human/animal bond, 860
Liaison activities, 860
Nomenclature and coding, 860
Improving the NBE and CCT, 860
World Veterinary Association, 861
Insurance matters, 861
Staggered council elections and sunset reviews, 861
AVMAPAC contributions, 861
Official AVMA ballots, 861
AVMA presidents conference, 861
User fees for animal biologics licensing, 861
Hazardous waste guidelines, 861
Animal welfare enforcement, 861
Winrock report endorsed, 861
Drs. Russell and Barnett elected to Executive Board, 1265
AVMA Foundation
AVMA Foundation, 1984 AVMA activities summary, 329
AVMA House of Delegates
Committee advises House, 1157
AVMA Judicial Council
Council proposes *Principles* revision, 1154
Displays in reception rooms and public areas, 1154
Veterinary products defined, 1154
Dispensing vs merchandising, 1154
Testimonials and endorsements, 1154
Right to refuse or terminate service, 1155
"Rebates and kickbacks" to state associations, 1155
Vaccination clinics, 1155
State licensure reciprocity, 1155
Misrepresented as specialists, 1155

Awards, Special
AABP Award for Excellence in Preventive Veterinary Medicine (L. Weaver), 443

AABP Award for Excellence in Preventive Veterinary Medicine (D. Williams), 443
AAEP Distinguished Life Member Award (M. B. Teigland), 217
AAHA Award (W. F. Jackson), 1147
AAHA Award of Merit (W. Kay), 1147
AAHA Award of Merit (D. Olsen), 1147
AAHA Charles E. Bild Practitioner of the Year Award (J. Saidla), 1147
AAHA Outstanding Practitioner (Far West) (S. Ettinger), 549
AAHA Outstanding Practitioner (Midwest) (A. Secord), 549
AAHA Outstanding Practitioner (Northeast) (J. Laurie), 549
AAHA Outstanding Practitioner (Northwest) (J. Sachtjen), 549
AAHA Outstanding Practitioner (Southeast) (J. Saidla), 549
AAHA Outstanding Practitioner (Western) (W. Trefz), 549
AAHA Outstanding Service Award (Far West) (H. Kopit), 549
AAHA Outstanding Service Award (Midwest) (P. Leonard), 549
AAHA Outstanding Service Award (Northwest) (G. Conger), 549
AAHA Outstanding Service Award (Northeast) (H. Kaplan), 549
AAHA Outstanding Service Award (Western) (E. Gillette), 549
AALAS Griffin Award (J. Ganaway), 221
AASP Howard Dunne Memorial Award (A. Hogg), 1151
AASP Practitioner of the Year (C. Schmidt), 1151
AAVLD E. P. Pope Memorial Award (M. Vorhies), 221
ACVS Distinguished Service Award (A. Schiller), 1044
ACVS Distinguished Service Award (C. Schiller), 1044
ACVS Distinguished Service Award (B. F. Hoerlein), 1044
ACVS Distinguished Service Award (R. Rudy), 1044
Arctic Science Prize (R. Rausch), 657
Arizona Veterinarian of the Year (C. Mikkelson), 226
Arkansas VMA Distinguished Service Award (T. Hendrickson), 548
Arkansas Veterinarian of the Year (F. Hander), 548
AVMA Outstanding Student Award (K. Krause), 1273
AVMA Student Award (J. Ellis), 224
Beecham Laboratories Award for Excellence in Veterinary Research (R. Bowen), 1269
Bovine Practitioner of the Year (J. Jarrett), 443
Colorado Norden Distinguished Teacher Award (D. Bennett), 1272
Colorado Veterinarian of the Year (R. Swanson), 22
Colorado VMA Outstanding Faculty Award (G. Severin), 1156
Florida Outstanding Veterinarian of the Year (D. O. Beusse), 450
Florida VMA Gold Star Award (J. Bellows), 450
Florida VMA Gold Star Award (J. Dee), 450
Florida VMA Gold Star Award (D. Dysert), 450
Florida VMA Gold Star Award (W. Gardner), 450
Florida VMA Gold Star Award (G. Hancock), 450
Florida VMA Gold Star Award (R. Goldman), 450
Florida VMA Gold Star Award (D. Hightower), 450
Florida VMA Gold Star Award (W. Parker), 450
Florida VMA Gold Star Award (S. Schachter), 450
Florida VMA Gold Star Award (H. Siegel), 450
Idaho Veterinarian of the Year (J. Lee), 550
Illinois Norden Distinguished Teacher Award (T. Lock), 1272
Indiana Sagamore of the Wabash (R. P. Kolker), 866
Indiana Sagamore of the Wabash (P. Dieterlen), 866
Indiana Veterinarian of the Year (J. R. Jones), 866
Indiana VMA President's Award (E. Page), 866
ISVMA President's Award (L. A. Dykstra), 1052
ISVMA Service Award (J. Nadler), 1052
Kansas Veterinarian of the Year (E. Gatz), 549
Kansas VMA President's Award (H. Caley), 549
Kentucky Distinguished Service Award (R. Singer), 133
Kentucky Veterinarian of the Year (K. R. Burdette), 133
Louisiana Veterinarian of the Year (R. Thayer), 870
Maryland VMA Veterinarian of the Year (J. Sessions), 134
Massachusetts VMA 1984 Distinguished Service Award (M. Wolf), 774
James A. McCallam Award (G. H. Wyckoff, Jr.), 18
Michigan State Honorary Alumnus Award (J. Newman), 553
Michigan State Honorary Alumnus Award (J. Breslin), 553
Michigan State Outstanding Alumni (J. Moore), 553
Michigan State Outstanding Alumni (M. Shirk), 553
Michigan State Outstanding Alumni (R. Witter), 553
Michigan VMA Distinguished Life Membership (H. Knirk), 19
Michigan VMA Veterinary Service Award (O. Krause), 19
Minnesota VMA Distinguished Service Award (D. Barnes), 1054
Minnesota Veterinarian of the Year (T. Hagerty), 1054
Missouri Veterinarian of the Year (E. Powell), 772
Nebraska Veterinarian of the Year (J. Edwards), 869
Nebraska VMA Merit Award (E. Dickinson), 869
Nebraska VMA Merit Award (N. Kruse), 869
1985 Toxicology Education Award (W. Buck), 1158
North Carolina Norden Distinguished Teacher (J. Kornegay), 865
Ohio VMA Meritorious Service Award (R. Houk), 868
Ohio VMA Meritorious Service Award (W. Hueston), 868
Ohio VMA Meritorious Service Award (D. Koncal), 868
Ohio VMA Meritorious Service Award (R. Weidner), 868
Ohio VMA Veterinarian of the Year (R. Wright), 868
Oklahoma Veterinarian of the Year (C. E. Hofmann), 552
Oklahoma VMA President's Award (J. Osborn), 552
Pennsylvania Veterinarian of the Year (R. Eckroade), 448
Pennsylvania Veterinarian of the Year (L. D. Schwartz), 448
Pennsylvania Veterinarian of the Year (M. Van Buskirk), 448
Pennsylvania VMA Award of Merit (E. Denlinger), 448
Pennsylvania VMA Distinguished Veterinarian Award (R. Marshak), 448
Purdue 1984 Distinguished Alumnus Award (W. Paramore), 553
Purdue 1984 Distinguished Alumnus Award (M. J. Bojrab), 553
South Dakota Veterinarian of the Year (N. Meriweather), 225
Texas Companion Animal Practitioner of the Year (A. F. Hopkins, Jr.), 867
Texas Distinguished Achievement Practitioner of the Year (A. K. Eugster), 867
Texas Equine Practitioner of the Year (R. Lewis), 867
Texas Food Animal Practitioner of the Year (F. Mann, Jr.), 867
UI Merit Award (W. Anderson), 21
UI Service Award (W. Brown), 21
UI Special Service Award (N. Levine), 21
UI Special Service Award (P. O'Bryen), 21
West Virginia Veterinarian of the Year (H. Spencer), 773

B

Babesiosis—Foundation devoted to malaria and babesiosis, 18
Bacteriology—Mistaken leptospire identified genetically, 223

BEHAVIOR
Effect of prepubertal versus postpubertal castration on sexual and aggressive behavior in male horses, 249
Psychogenic colic in a horse, 381
Behavioral profiles of dog breeds, 1175
Selecting pet dogs on the basis of cluster analysis of breed behavior profiles and gender, 1181
Behavioral indications for phenothiazine and benzodiazepine tranquilizers in dogs, 1192

Bezoars—Trichobezoar in a guinea pig, 812
Bile Acids—Evaluation of serum bile acid concentrations for the diagnosis of portosystemic venous anomalies in the dog and cat, 1090
Bile Duct—Choledocholithotripsy in a mare, 1317

BIOLOGICS
Stopgap amendments to animal biologics act proposed, 31
New veterinary biological products, 88, 184, 272, 358, 478, 610, 685, 994, 1098, 1197
Animal biologics, 126, 342
Animal Biologics Act, 1984 AVMA activities summary, 333
Biologics proposal, 658
Board discusses user fees for animal biologics licensing, 861
User fee proposal could put some biologics producers out of business, 1162

Biotechnology—House Committee reviews adequacy of laws governing biotechnology, 664
Biotechnology—Cabinet group publishes proposal for coordinated regulation of biotechnology, 665
Bladder—Neoplasia of the equine urinary bladder as a cause of hematuria, 1294
Bladder—Ruptured urinary bladder in a heifer, 1310
Blastomycosis in a ferret, 70
Blastomycosis—Chylothorax associated with blastomycosis in a dog, 72

Blood—Exsanguination due to gastric ulceration in a foal, 280
Blood Cells—Suspected immune-mediated megakaryocytic hypoplasia or aplasia in a dog, 1313
Blood Vessels—Segmental hemiatrophy in a dog, 1315

BONE
Radial agenesis and ulnar hypoplasia in two caprine kids, 170
Complete ulnas and fibulas in a pony foal, 803
Free chondral fragment involving the lateral trochlear ridge of the talus in a dog, 1095
Osteochondritis dissecans of the sagittal ridge of the third metacarpal and metatarsal bones in horses, 1186

BOOK REVIEWS
Clinical Laboratory Animal Medicine (D. D. Holmes), 567
Clinical Microbiology and Infectious Diseases of the Dog and Cat (C. E. Greene), 364
Color Atlas of Diseases of the Domestic Fowl and Turkey (C. J. Randall), 1107
Diseases of Poultry (M. S. Hofstad), 277
Dissection of the Dog and Cat (M. J. Shively and B. Beaver), 1180
Electroacupuncture in Veterinary Medicine (S. White), 989
Essential Immunology (I. M. Roitt), 1107
Essentials of Physiology (J. F. Lamb et al), 710
The Feisty Veterinarians of New Jersey (R. Thompson), 801
Laboratory Animal Medicine (J. G. Fox et al), 964
Laboratory Techniques of Veterinary Clinical Immunology (O. Barta), 801
Medical Emergencies (R. G. Sherding), 1300
Physiology and Biochemistry of the Domestic Fowl (F. M. Freeman), 587
The Practice of Large Animal Surgery (P. B. Jennings, Jr.), 85
Veterinarian's Treasury of Practice Tips II (S. Glasofer and L. Mandelker), 1180
Veterinary Anesthesia (W. V. Lumb and E. W. Jones), 161
Veterinary Clinical Diagnosis (W. R. Kelly), 90
Veterinary Medicine and Human Health (C. W. Schwabe), 58

Books—Animal health care is subject of USDA book, 19
Books received but not reviewed, 165, 292, 400, 791, 1222
Borrelia—Borreliosis in dogs from southern Connecticut, 955
Borrelia—Arthritis caused by *Borrelia burgdorferi* in dogs, 960

BOVINE SPECIES
Economic impact of an epizootic of bovine vesicular stomatitis in California, 370
Injection of iron in newborn beef calves, 394
Wound healing of bovine teats, 484
Effect of dihydrostreptomycin or oxytetracycline on reproductive capacity of bulls, 494
Pathogenesis of bovine pyometra, 510
Isolation of cytopathic and noncytopathic bovine viral diarrhea virus from the spleen of cattle acutely and chronically affected with bovine viral diarrhea, 568
Scrotal circumference adjustment factors for age and weight differences in beef bulls, 580
Efficacy of ethylenediamine dihydriodide in preventing bovine foot rot, 582
Periorchitis after tetramisole treatment in bulls implanted with *Setaria labiatopapillos*, 588
Letter: 1144
Bovine viral diarrhea in a newborn calf, 600
Bilateral bicipital bursitis in a cow, 604
Transplacental transfer and colostral concentrations of selenium in beef cattle, 690
Serologic prevalence of toxoplasmosis in cattle, sheep, goats, pigs, bison, and elk in Montana, 969
Cutaneous pythiosis in beef calves, 984
Control of nematodes in dairy heifers by prophylactic treatments with albendazole in the spring, 1071
Changes in prevalence and susceptibility of obligate anaerobes in clinical veterinary practice, 1086
Venous blood pressure and development of bovine udder edema, 1089
Intestinal strangulation associated with omphaloarteritis in a calf, 1099
Cattle disease papers invited for world congress, 1148
Abdominocentesis in cattle, 1220
Taenia saginata cysticercosis in an Ohio cattle feeding operation, 1281
Cystic ovaries in dairy cattle housed in a confinement system, 1290
Effect of unilateral orchiectomy on semen quality in bulls, 1291
Vagus indigestion syndrome resulting from a liver abscess in dairy cows, 1297
Ruptured urinary bladder in a heifer, 1310

Bovine Viral Diarrhea—Isolation of cytopathic and noncytopathic bovine viral diarrhea virus from the spleen of cattle acutely and chronically affected with bovine viral diarrhea, 568
Bovine viral diarrhea in a newborn calf, 600
Brain—Ataxia and weakness associated with fourth ventricle vascular anomalies in two horses, 601

BRUCELLOSIS
State brucellosis free, 21
Minnesota free of brucellosis, 547
Brucellosis down in 1984, 547
Canine brucellosis in a household, 695
Minnesota declared brucellosis free, 1054

Budget—Continuing resolution on funding, 126, 342
Bursitis—Bilateral bicipital bursitis in a cow, 604
Bylaws—Proposed amendments to AVMA Constitution and Bylaws, 1046

C

Calcium chloride for treatment of subcutaneous lipomas in dogs, 492
Cancer—Council discusses cancer brochure, 132, 766

CANINE SPECIES
Mesothelioma in dogs, 46
Urinary tract infection associated with long-term corticosteroid administration in dogs with chronic skin diseases, 43
Carpal hyperextension in two-month-old pups, 49
Gastric emptying in the healthy dog, 52
Hypoglycemia associated with nonislet cell tumor in 13 dogs, 53
Canine hemangioscarcoma: Retrospective analysis of 104 cases, 56
Pemphigus foliaceus in dogs: A review of 37 cases, 59
Pemphigus foliaceus of the footpads in three dogs, 67
Chylothorax associated with blastomycosis in a dog, 72
Surgical correction of primary pneumothorax in a dog, 75
Prostatic adenocarcinoma in a castrated dog, 78
Infiltrative lipoma in three dogs, 81
Surgical correction of third eyelid prolapse in dogs, 83
Letters: 760
Pericardial and pleural effusion in a dog, 89
Automobile-induced trauma, 125
Effect of xylazine on heart rate and arterial blood pressure in conscious dogs, as influenced by atropine, 4-aminopyridine, doxapram, and yohimbine, 153
Chronic hypertrophic pyloric gastropathy as a cause of pyloric obstruction in the dog, 157
Efficacy of digoxin administration in dogs with idiopathic congestive cardiomyopathy, 162
Atypical findings in 16 cases of canine ehrlichiosis, 166
Letters: 762, 778
Ivermectin for treatment of nasal capillariasis in a dog, 174
Compund odontoma in a dog, 177
Foreign body obstruction and peritonitis in a dog, 183
Cutaneous innervation of the thorax and abdomen of the dog, 251
Canine atopic disease, 269
Effect of ophthalmic prednisolone on the canine adrenal gland and hepatic function, 279
Clinical and hematologic findings in canine ehrlichiosis, 355
Trochlear recession for correction of luxating patella in the dog, 365
Role of canine parainfluenza virus and *Bordetella bronchiseptica* in kennel cough, 376
Laryngeal paralysis in dogs: A review of 23 cases, 377
Comparative aging changes in canine uterine tubes, 380
Mammary scirrhous carcinoma in a dog, 398
Canine stress syndrome, 432

Rocky Mountain spotted fever in dogs and its differentiation from canine ehrlichiosis, 465
Gastrointestinal phycomycosis in 63 dogs, 473
Sulfadiazine-induced allergy in six Doberman Pinschers, 479
Hypoalbuminemia-related platelet hypersensitivity in two dogs with nephrotic syndrome, 485
Antimicrobial susceptibility patterns of canine *Staphylococcus intermedius* isolates, 488
Orbital neoplasia in 23 dogs, 489
Calcium chloride for treatment of subcutaneous lipomas in dogs, 492
Simultaneous double-contrast cystography and cystometry in dogs, 494
Myotonic dystrophy-like disease in a dog, 495
Thallium intoxication in a dog, 498
Neurologic manifestations of cerebrovascular atherosclerosis associated with primary hypothyroidism in a dog, 499
Round space filling defect suggestive of a foreign body in a dog, 507
Early clinicopathologic findings in dogs ingesting ethylene glycol, 510
Questions study design, 540, 541
Roadway hazards, 540
Diagnosis of canine Cushing's syndrome, 582
Clinicopathologic aspects of acute leukemias in the dog, 681
Gentamicin-associated acute renal failure in the dog, 686
Circulatory and respiratory effects of methoxyflurane and halotane in dogs, 690
Plasmapheresis as adjuvant therapy for autoimmune hemolytic anemia in two dogs, 691
Canine brucellosis in a household, 695
Hypertrophic osteopathy associated with a bronchial foreign body and lobar pneumonia in a dog, 698
Unsuccessful treatment of disseminated protothecosis in a dog, 705
Unusual nasal foreign body in a dog, 710
Be alert for *Babesia gibsoni* infections, 762
Greyhound enthusiasts, 773
Neutrophilic leukocytosis associated with metastatic fibrosarcoma in a dog, 806
Efficacy and toxicity of estrogens commonly used to terminate canine pregnancy, 783
Intra-articular tissue response to metrizamide in dogs, 797
Borreliosis in dogs from southern Connecticut, 955
Hemodynamic effects of gastric distention-volvulus in dogs, 959
Arthritis caused by *Borrelia burgdorferi* in dogs, 960
Caliciviruses from dogs with enteric infections, 970
Bullous emphysema and recurrent pneumothorax in the dog, 971
Mycotic keratitis in a dog: Concurrent *Aspergillus* sp and *Curvularia* sp infections, 975
Hepatic cirrhosis associated with long-term primidone therapy in a dog, 978
Techniques to aid in the radiographic diagnosis of heartworm disease, 1063
Staphylococci in canine urolithiasis, 1079
Changes in prevalence and susceptibility of obligate anaerobes in clinical veterinary practice, 1086
Evaluation of serum bile acid concentrations for the diagnosis of portosystemic venous anomalies in the dog and cat, 1090
Free chondral fragment involving the lateral trochlear ridge of the talus in a dog, 1095
Pneumonitis associated with occult heartworm disease in dogs, 1097
Costal bone changes similar to hypertrophic osteopathy associated with pulmonary and abdominal mesothelioma in a dog, 1100
Angiostrongylosis in a Greyhound, 1101
Peritoneal cestodiasis in a dog, 1103
Serum anti-protease activity in dogs with acute pancreatitis, 1112
Behavioral profiles of dog breeds, 1175
Selecting pet dogs on the basis of cluster analysis of breed behavior profiles and gender, 1181
Behavioral indications for phenothiazine and benzodiazepine tranquilizers in dogs, 1192
Ventrolateral approach for repair of sacroiliac fracture-dislocation in the dog and cat, 1198
Clinical features of spongy degeneration of the central nervous system in two Labrador Retriever littermates, 1207
Degenerative myelopathy in an adult Miniature Poodle, 1213
Thrombocytopenia associated with vaccination of a dog with a modified-live paramyxovirus vaccine, 1217
Diskospondylitis of T9-T10 and T13-L3 with vertebral osteophytosis in a dog, 1221
Theory about malignant hyperthermia, 1259
Over the top techniques for anterior cruciate ligament replacement in the dog, 1285
A correlative study of the clinical and radiographic signs of periodontal disease in dogs, 1286
Nutrition and metabolism of the geriatric dog, 1303
Bone marrow biopsy in assessment of sick dogs, 1303
Suspected immune-mediated megakaryocytic hypoplasia or aplasia in a dog, 1313
Segmental hemiatrophy in a dog, 1315
Paragonimiasis in a dog: Treatment with praziquantel, 1319
Hemodialysis of a dog with acute renal failure, 1323
Generalized cardiomegaly in a dog, 1327

Capillariasis—Ivermectin for treatment of nasal capillariasis in a dog, 174

Caprine Species
Radial agenesis and ulnar hypoplasia in two caprine kids, 170
Serologic prevalence of toxoplasmosis in cattle, sheep, goats, pigs, bison, and elk in Montana, 969
Changes in prevalence and susceptibility of obligate anaerobes in clinical veterinary practice, 1086

Cardiology—Efficacy of digoxin administration in dogs with idiopathic congestive cardiomyopathy, 162
Cardiology—Exchange of viewpoints on arrhythmias, 648, 651
Cardiomegaly—Generalized cardiomegaly in a dog, 1327
Cardiovascular System—Evaluation of serum bile acid concentrations for the diagnosis of portosystemic venous anomalies in the dog and cat, 1090
Carpal hyperextension in two-month-old pups, 49
Castration—Effect of prepubertal versus postpubertal castration on sexual and aggressive behavior in male horses, 249
Cauda Equina Syndrome—Laminectomy for treatment of cauda equina syndrome in a cat, 904
Centesis—Effects of enterocentesis on peritoneal fluid constituents in the horse, 1301

Central Nervous System
Granulomatous meningoencephalomyelitis, 138
California serogroup virus infection in a horse with encephalitis, 389
Nerologic manifestations of cerebrovascular atherosclerosis associated with primary hypothyroidism in a dog, 499
Ataxia and weakness associated with fourth ventricle vascular anomalies in two horses, 601
Clinical features of spongy degeneration of the central nervous system in two Labrador Retriever littermates, 1207
Degenerative myelopathy in an adult Miniature Poodle, 1213

Certification Examinations, 23, 135, 227, 454, 554, 658, 774, 870, 1055, 1158, 1275
Chlamydiosis—Enigmatic psittacine chlamydiosis: Results of serotesting and isolation attempts, 1978 through 1983, and considerations for the future, 1075
Cholelithiasis in a cat, 176
Cholelithiasis—Choledocholithotripsy in a mare, 1317
Chylothorax associated with blastomycosis in a dog, 72

Clinical Reports
Blastomycosis in a ferret, 70
Chylothorax associated with blastomycosis in a dog, 72
Polycystic kidneys in a ferret, 74
Surgical correction of primary pneumothorax in a dog, 75
Prostatic adenocarcinoma in a castrated dog, 78
Laryngeal carcinoma in a cat, 80
Infiltrative lipoma in three dogs, 81

Surgical correction of third eyelid prolapse in dogs, 83
Letters: 760
Radial agenesis and ulnar hypoplasia in two caprine kids, 170
Submandibular and disseminated zygomycosis (mucormycosis) in feeder pigs, 171
Ivermectin for treatment of nasal capillariasis in a dog, 174
Cholelithiasis in a cat, 176
Compound odontoma in a dog, 177
Segmental aplasia of the uterine horn in a cat, 179
Lymphocytic-plasmacytic enteritis in a cat, 181
Exsanguination due to gastric ulceration in a foal, 280
Congential aniridia in a pony, 281
Tracheal compression secondary to abscessation of cranial mediastinal lymph nodes in a horse, 283
Bilateral degenerative coxofemoral joint disease in a foal, 284
Psychogenic colic in a horse, 381
Chronic intestinal intussusception in two horses, 383
Vaginal evisceration of the small intestine in three mares, 385
Vertebral fracture, extensor hypertonia of thoracic limbs, and paralysis of pelvic limbs (Schiff-Sherrington syndrome) in an Arabian foal, 387
California serogroup virus infection in a horse with encephalitis, 389
Complications from a testicular prosthesis in a stallion, 390
Letters: 852, 853
Firm udder in periparturient ewes with lymphocytic accumulations, retrovirus infection, and milk unavailable at the teat, 391
Gastric zygomycosis (mucormycosis) in 4 suckling pigs, 393
Myotonic dystrophy-like disease in a dog, 495
Thallium intoxication in a dog, 498
Neurologic manifestations of cerebrovascular atherosclerosis associated with primary hypothyroidism in a dog, 499
Laminectomy for treatment of cauda equina syndrome in a cat, 504
Malignant melanoma of the conjunctiva in a cat, 505
Bovine viral diarrhea in a newborn calf, 600
Ataxia and weakness associated with fourth ventricle vascular anomalies in two horses, 601
Bilateral bicipital bursitis in a cow, 604
Plasmapheresis as adjuvant therapy for autoimmune hemolytic anemia in two dogs, 691
Idiopathic hypersplenism in a ferret, 693
Canine brucellosis in a household, 695
Hypertrophic osteopathy associated with a bronchial foreign body and lobar pneumonia in a dog, 698
Encephalitozoonosis in a parrot, 700
Disseminated cutaneous squamous cell carcinoma in a ferret, 702
Phycomycosis caused by *Basidiobolus haptosporus* in two horses, 703
Unsuccessful treatment of disseminated protothecosis in a dog, 705
Microsurgical management of tetralogy of Fallot in a cat, 708
Unusual nasal foreign body in a dog, 710
Complete ulnas and fibulas in a pony foal, 803
Chondrosarcoma arising in a multilobular chondroma in a cat, 804
Neutrophilic leukocytosis associated with metastatic fibrosarcoma in a dog, 806
Chronic eosinophilic pancreatitis and ulcerative colitis in a horse, 809
Visna-like disease in a Minnesota sheep, 811
Mycotic keratitis in a dog: Concurrent *Aspergillus* sp and *Curvularia* sp infections, 975
Water deprivation-sodium chloride intoxication in a group of feeder lambs, 977
Hepatic cirrhosis associated with long-term primidone therapy in a dog, 978
Reserpine toxicosis in a horse, 980
Coccidiosis caused by *Eimeria scabra* in a finishing hog, 981
Bacterial septicemias in two psittacine birds, 983
Cutaneous pythiosis in beef calves, 984
Interactions of management and animal performance in a swine feedlot, 986
Endrin toxicosis in a cat, 988
Free chondral fragment involving the lateral trochlear ridge of the talus in a dog, 1095
Pneumonitis associated with occult heartworm disease in dogs, 1097
Intestinal strangulation associated with omphaloarteritis in a calf, 1099
Costal bone changes similar to hypertrophic osteopathy associated with pulmonary and abdominal mesothelioma in a dog, 1100
Angiostrongylosis in a Greyhound, 1101
Peritoneal cestodiasis in a dog, 1103
Surgical and medical management of rhinophycomycosis (conidiobolomycosis) in a horse, 1105
Clinical features of spongy degeneration of the central nervous system in two Labrador Retriever littermates, 1207
Common ventricle with separate pulmonary outflow chamber in a horse, 1210
Degenerative myelopathy in an adult Miniature Poodle, 1213
Pelvic limb lameness due to malignant melanoma in a horse, 1215
Thrombocytopenia associated with vaccination of a dog with a modified-live paramyxovirus vaccine, 1217
Ulcerative keratitis associated with *Salmonella arizonae* infection in a horse, 1219
Ruptured urinary bladder in a heifer, 1310
Pharyngeal polyps in two feline siblings, 1311
Suspected immune-mediated megakaryocytic hypoplasia or aplasia in a dog, 1313
Segmental hemiatrophy in a dog, 1315
Choledocholithotripsy in a mare, 1317
Paragonimiasis in a dog: Treatment with praziquantel, 1319
Use of ^{111}In-labeled autologous leukocytes to image an abdominal abscess in a horse, 1320
Hemodialysis of a dog with acute renal failure, 1323

Coccidiosis caused by *Eimeria scabra* in a finishing hog, 981
Colibacillosis—Bacterial septicemias in two psittacine birds, 983
Colic topics invited, 220
Colic—Psychogenic colic in a horse, 381
Colitis—Chronic eosinophilic pancreatitis and ulcerative colitis in a horse, 809
Colloquium on Recent Advances in the Therapy of Infectious Diseases, 1984 AVMA activities summary, 334
Coming Meetings, 100, 186, 294, 406, 512, 613, 732, 816, 1002, 1115, 1226, 1329

COMPUTERS
Potential impact of on-farm microcomputers on livestock management and veterinary practice, 240
AVMA's computer experience, 1984 AVMA activities summary, 339
Brains in heads rather than in machines, 1035
Searching the veterinary literature via computer, 1058
Computer marketing, 1259

CONGENITAL ABNORMALITIES
Radial agenesis and ulnar hypoplasia in two caprine kids, 170
Segmental aplasia of the uterine horn in a cat, 179
Congenital aniridia in a pony, 281
Pectus excavatum with a left lateral deviation of the heart in a cat, 508
Ataxia and weakness associated with fourth ventricle vascular anomalies in two horses, 601
Microsurgical management of tetralogy of Fallot in a cat, 708
Evaluation of serum bile acid concentrations for the diagnosis of portosystemic venous anomalies in the dog and cat, 1090
Common ventricle with separate pulmonary outflow chamber in a horse, 1210
Pharyngeal polyps in two feline siblings, 1311
Segmental hemiatrophy in a dog, 1315
Conjunctiva—Malignant melanoma of the conjunctiva in a cat, 505

Constitution—Proposed amendments to AVMA Constitution and Bylaws, 1046

CONTINUING EDUCATION
Nationally televised satellite conference, 10
Courses in continuing education, 92, 717
Continuing education, 1984 AVMA activities summary, 335
Satellite conference links colleges, 768
CEAC meets, 1271

Corticosteroids—Urinary tract infection associated with long-term corticosteroid administration in dogs with chronic skin diseases, 43
Corynebacterium Infections—Clinical and radiographic findings in *Corynebacterium equi* pneumonia of foals, 593

COVER PICTURES
Coyote by Richard Timm, 4
Logging Team by Robert E. Lougheed, 212
The Young Bull by Paulus Potter, 540
Yellow and Black Labradors by Ernest H. Hart, 648
Hilda and Louise, Veterinary Medicine Missouri Mule Team by Virginia Blackley, 762
Untitled dog picture by Jean Baptiste Oudry, 1140

Cysticercosis—*Taenia saginata* cysticercosis in an Ohio cattle feeding operation, 1281
Cysts—Soft tissue mass with a mineralized capsule in a horse, 609
Cytology—Inclusions in equine cytologic specimens, 359

D

Deaths, 24, 136, 228, 455, 556, 660, 776, 872, 1056, 1160, 1276

DERMATOLOGY
Urinary tract infection associated with long-term corticosteroid administration in dogs with chronic skin diseases, 43
Pemphigus foliaceus in dogs: A review of 37 cases, 59
Pemphigus foliaceus of the footpads in three dogs, 67
Double-blind flea hyposensitization trial in cats, 677
Cutaneous pythiosis in beef calves, 984

Dialysis—Hemodialysis of a dog with acute renal failure, 1323
Digoxin—Efficacy of digoxin administration in dogs with idiopathic congestive cardiomyopathy, 162
Dirofilariasis—Techniques to aid in the radiographic diagnosis of heartworm disease, 1063
Dirofilariasis—Pneumonitis associated with occult heartworm disease in dogs, 1097

DISEASE CONTROL
Council discusses interstate health certificates, 1266
Council discusses foreign disease awareness, 1267
Council discusses zoonotic disease feature, 1267

Diskospondylitis in five horses, 270
Doxapram—Effect of xylazine on heart rate and arterial blood pressure in conscious dogs, as influenced by atropine, 4-aminopyridine, doxapram, and yohimbine, 153

DRUGS
Newer concepts in treatment of secretory diarrheas, 86
Controlled substances act amendments, 126, 342
Extra-label use of drugs in food animals, 127, 346
FDA guideline on veterinary prescriptions, 127, 129, 346
Sensitivity of method, 127
Bulk drug use, 127, 346
Council discusses hypodermic syringe laws, 130
Council discusses right to dispense drugs, 131
Council discusses outdated drugs and biologics, 134
Labeled use vs approved use, 144
FDA asks state help with illegal drug use, 232
Controlled substances act amendments enacted, 232
Cisplatin, a new antineoplastic drug in veterinary medicine, 288
Yohimbine dosage, 320
Allow for obesity, 320
Consider xylazine too, 321
Extra-label drug use, 1984 AVMA activities summary, 334
Prescription guidelines, 1984 AVMA activities summary, 334
Drug ingredient labeling, 346
Drug labeling of FDA approval, 346
FDA/CVM adverse reaction hot lines, 347, 552
FDA-approved labels vs practice, 347
Therapeutic drugs is subject of symposium cosponsored by AVMA, 449
Sulfamethazine advisory, 451
Illegal distribution of animal drugs, 670
Council discusses extra-label drug prescription, 765
Council discusses right to dispense drugs, 765
Dr. Crawford asks for continuing dialogue on illegal prescription drug distribution, 877
Dialogue on xylazine, 1140, 1141
FDA final rules on marketing new drugs and antibiotics for human use, 1163
Paragonimiasis in a dog: Treatment with praziquantel, 1319

E

Ecology—Veterinary ethics and ecologic concerns, 212
Ecology—Response to comments on ecologic concerns, 1038

ECONOMIC NOTE
Industrial employment of veterinarians, 84
1983 incomes of US veterinarians, 395
1983 US veterinary practice income, expenses, and financial ratios, 605
1983 professional incomes of US veterinarians, by hours worked and years since graduation, 1108

ECONOMICS
Biennial economic survey, 1984 AVMA activities summary, 336
Income and indebtedness of graduating seniors, 1984 AVMA actitivities summary, 337
Economic impact of an epizootic of bovine vesicular stomatitis in California, 370
Economic decisions in veterinary practice: A method for field use, 792
Correction: 1326

EDITORIAL VIEWPOINTS
Disclosing commercial connections, 34
Spay costs and pet population control, 34
AIDS, 34
Professional nursing and nursing diagnoses, 34
Image integrity, 144
Views on chloramphenicol, 144
Language of science, 144
Labeled use vs approved use, 144
FDA-approved labels vs practice, 347
Who comes first, animals or people?, 347
Women dominate at UCD enrollees, 347

EHRLICHIOSIS
Atypical findings in 16 cases of canine ehrlichiosis, 166
Letters: 762, 778
Clinical and hematologic findings in canine ehrlichiosis, 355
Rocky Mountain spotted fever in dogs and its differentiation from canine ehrlichiosis, 465

Emphysema—Bullous emphysema and recurrent pneumothorax in the dog, 971
Encephalitis—California serogroup virus infection in a horse with encephalitis, 389
Encephalitozoonosis in a parrot, 700
Endrin toxicosis in a cat, 988
Enrollment, Veterinary Student—Student enrollment, 1984-1985, 653
Enteritis—Lymphocytic-plasmacytic enteritis in a cat, 181

ENVIRONMENT
Hazard waste management, 126, 342, 1266
Infectious hazardous waste, 127, 346
Ethylene oxide exposure, 127, 129, 346
Ethylene oxide regulations affect veterinary practices, 130
Council discusses pregnancy in the workplace, 131
President signs stringent hazardous waste bill, 232
Board discusses hazardous waste guidelines, 861

AVMA joins EPA working group that will revise hazardous waste guide, 879
Panel advises against veterinary hospital wastes being included in revised EPA infectious waste guide, 1162
Epidemiology—*Taenia saginata* cysticercosis in an Ohio cattle feeding operation, 1281

Epididymitis—Prevalence and causes of ram epididymitis in Utah, 798

EQUINE SPECIES
Racehorse medication, 126, 342
Effect of prepubertal versus postpubertal castration on sexual and aggressive behavior in male horses, 249
Uterine involution in mares treated with progesterone and estradiol-17β, 252
Evaluation of fluorescein dye as an indicator of small intestinal viability in the horse, 257
Evaluation of febantel used concurrenty with piperazine citrate in horses, 262
Surgical management of perineal lacerations and rectovestibular fistulae in the mare: A retrospective study of 47 cases, 265
Correction: 1038
Diskospondylitis in five horses, 270
Nocardia asteroides infection in horses: A review, 273
Axial sesamoid injuries associated with lateral condylar fractures in horses, 278
Exsanguination due to gastric ulceration in a foal, 280
Congenital aniridia in a pony, 281
Tracheal compression secondary to abscessation of cranial mediastinal lymph nodes in a horse, 283
Bilateral degenerative coxofemoral joint disease in a foal, 284
Vaccination guidelines, 1984 AVMA activities summary, 333
Inclusions in equine cytologic specimens, 359
Dexamethasone and prednisolone in the horse, 369
Rate of rise of arterial carbon dioxide tension in the halothane-anesthetized horse, 374
Psychogenic colic in a horse, 381
Chronic intestinal intussusception in two horses, 383
Vaginal evisceration of the small intestine in three mares, 385
Vertebral fracture, extensor hypertonia of thoracic limbs, and paralysis of pelvic limbs (Schiff-Sherrington syndrome) in an Arabian foal, 387
California serogroup virus infection in a horse with encephalitis, 389
Complications from a testicular prosthesis in a stallion, 390
Letters: 852, 853
Usefulness of lymphocyte typing to exclude incorrectly assigned paternity in horses, 394
Racetrack medication goals proposed, 439
Equine pulmonary study funded, 450
Antagonism of pancuronium in halothane-anesthetized ponies, using neostigmine and edrophonium, 472
Grants awarded for study of equine diarrhea syndrome, 546
CVM warns against cold laser treatment for horses, 546
Semitendinosus tenotomy for treatment of fibrotic myopathy in the horse, 565
Ileal impaction in the horse, 570
Noncomminuted fractures of the proximal phalanx in 69 horses, 573
Fertility of young mares after long-term anabolic steroid treatment, 583
Contribution of the nasal septum to the radiographic anatomy of the equine nasal cavity, 590
Clinical and radiographic findings in *Corynebacterium equi* pneumonia of foals, 593
Ataxia and weakness associated with fourth ventricle vascular anomalies in two horses, 601
Effects of furosemide on the hemostatic mechanism of resting and exercised Standardbreds, 608
Soft tissue mass with a mineralized capsule in a horse, 609
Corynebacterium equi-specific antibody in horses, 680
Phycomycosis caused by *Basidiobolus haptosporus* in two horses, 703
Radiopaque linear foreign body in a horse, 711
Serologic evidence of *Legionella* infection in horses, 712
Complete ulnas and fibulas in a pony foal, 803
Chronic eosinophilic pancreatitis and ulcerative colitis in a horse, 809
Team effort saves critically ill foals, 865
Fiberoptic gastroduodenoscopy in the horse, 965
Reserpine toxicosis in a horse, 980
Compressed trachea in a filly, 993
Call for papers: equine reproduction symposium, 1045
A new field strain of equine herpesvirus-1, 1074
Effects of cryotherapy on the palmar and plantar digital nerves in the horse, 1079
Changes in prevalence and susceptibility of obligate anaerobes in clinical veterinary practice, 1086
Colonic motor responses in the pony, 1094
Surgical and medical management of rhinophycomycosis (conidiobolomycosis) in a horse, 1105
^{192}Ir interstitial brachytherapy of equine sarcoid, 1110
Osteochondritis dissecans of the sagittal ridge of the third metacarpal and metatarsal bones in horses, 1186
Immunodeficiency manifested by oral candidiasis and bacterial septicemia in foals, 1195
Prevalence of equine onchocerciasis in southeastern and midwestern United States, 1202
Splinting device for hindlimb fractures in horses, 1204
Common ventricle with separate pulmonary outflow chamber in a horse, 1210
Pelvic limb lameness due to malignant melanoma in a horse, 1215
Ulcerative keratitis associated with *Salmonella arizonae* infection in a horse, 1219
Neoplasia of the equine urinary bladder as a cause of hematuria, 1294
Effects of enterocentesis on peritoneal fluid constituents in the horse, 1301
Intestinal decompression: Preliminary study in the horse, 1304
Choledocholithotripsy in a mare, 1317
Use of ^{111}In-labeled autologous leukocytes to image an abdominal abscess in a horse, 1320

Estrogens—Efficacy and toxicity of estrogens commonly used to terminate canine pregnancy, 783
Ethics—Promising a result, 1166
Ethics—Council proposes *Principles* revision, 1154
Euthanasia symposium explores conflicts and contradictions, 444
Euthanasia panel begins its work, 656
Evisceration, Vaginal—Vaginal evisceration of the small intestine in three mares, 385

EYE
Orbital neoplasia in 23 dogs, 489
Malignant melanoma of the conjunctiva in a cat, 505
Mycotic keratitis in a dog: Concurrent *Aspergillus* sp and *Curvularia* sp infections, 975
Ulcerative keratitis associated with *Salmonella arizonae* infection in a horse, 1219

Eyelids—Surgical correction of third eyelid prolapse in dogs, 83
Letters: 760

F

FDA VETERINARY NOTES
Illegal distribution of animal drugs, 670

Febantel—Evaluation of febantel used concurrently with piperazine citrate in horses, 262
Federal Trade Commission—FTC jurisdiction, 126, 342
Federal Trade Commission—FTC considers rules on ophthalmic practice, 665

Feeds and Feeding—Interactions of management and animal performance in a swine feedlot, 986

FELINE SPECIES
Tear substitutes and atropine, 27
Cat-scratch bacillus identified, 69
Laryngeal carcinoma in a cat, 80

Vaccination against feline viral rhinotracheitis in kittens with maternally derived feline viral rhinotracheitis ıtibodies, 149
Cholelithiasis in a cat, 176
Segmental aplasia of the uterine horn in a cat, 179
Lymphocytic-plasmacytic enteritis in a cat, 181
Pneumothorax and fractured rib in a cat, 291
Pathogenesis of feline gastric chlamydial infection, 491
Laminectomy for treatment of cauda equina syndrome in a cat, 904
Malignant melanoma of the conjunctiva in a cat, 505
Pectus excavatum with a left lateral deviation of the heart in a cat, 508
Double-blind flea hyposensitization trial in cats, 677
Microsurgical management of tetralogy of Fallot in a cat, 708
Council discusses FeLV-infected cats, 766
Age-related changes in feline testis and epididymis, 788
Chondrosarcoma arising in a multilobular chondroma in a cat, 804
Adrenal function in the cat, 959
Endrin toxicosis in a cat, 988
Council discusses feline health media workshop, 1042
Anti-epithelial autoantibodies associated with the feline eosinophilic granuloma complex, 1074
Changes in prevalence and susceptibility of obligate anaerobes in clinical veterinary practice, 1086
Evaluation of serum bile acid concentrations for the diagnosis of portosystemic venous anomalies in the dog and cat, 1090
Radiopaque foreign body within the thoracic cavity in a cat, 1111
Heinz body-induced RBC destruction in cats, 1185
Ventrolateral approach for repair of sacroiliac fracture-dislocation in the dog and cat, 1198
Pharyngeal polyps in two feline siblings, 1311

FERRETS
Blastomycosis in a ferret, 70
Polycystic kidneys in a ferret, 74
Idiopathic hypersplenism in a ferret, 693
Disseminated cutaneous squamous cell carcinoma in a ferret, 702

Fiberoptic gastroduodenoscopy in the horse, 965
Fleas—Double-blind flea hyposensitization trial in cats, 677
Fluorescein—Evaluation of fluorescein dye as an indicator of small intestinal viability in the horse, 257

FOOD AND DRUG ADMINISTRATION
Council meets with FDA and CVM chiefs, 129
Board apprises FDA of AVMA priorities, 220
Advisory committee to the Center for Veterinary Medicine, 1984 AVMA activities summary, 332
CVM advisory committee meeting, 662
Freedom of Information Act: Filing a request with CVM, 1274

Footpads—Pemphigus foliaceus of the footpads in three dogs, 67

FOREIGN BODIES
Foreign body obstruction and peritonitis in a dog, 183
Round space filling defect suggestive of a foreign body in a dog, 507
Hypertrophic osteopathy associated with a bronchial foreign body and lobar pneumonia in a dog, 698
Unusual nasal foreign body in a dog, 710
Radiopaque linear foreign body in a horse, 711
Radiopaque foreign body within the thoracic cavity in a cat, 1111

Foreign Meetings, 104, 192, 300, 409, 516, 624, 734, 822, 1012, 1116, 1234, 1330

FORUM
The future of our military veterinary services, 888

4-H—National 4-H veterinary awards presented, 449
Fracture Fixation—Splinting device for hindlimb fractures in horses, 1204

FRACTURES
Axial sesamoid injuries associated with lateral condylar fractures in horses, 278
Vertebral fracture, extensor hypertonia of thoracic limbs, and paralysis of pelvic limbs (Schiff-Sherrington syndrome) in an Arabian foal, 387
Noncomminuted fractures of the proximal phalanx in 69 horses, 573

FUNGAL INFECTIONS
Chylothorax associated with blastomycosis in a dog, 72
Submandibular and disseminated zygomycosis (mucomycosis) in feeder pigs, 171
Gastric zygomycosis (mucormycosis) in 4 suckling pigs, 393
Phycomycosis caused by *Basidiobolus haptosporus* in two horses, 703
Mycotic keratitis in a dog: Concurrent *Aspergillus* sp and *Curvularia* sp infections, 975
Cutaneous pythiosis in beef calves, 984
Surgical and medical management of rhinophycomycosis (conidiobolomycosis) in a horse, 1105

G

Gastropathy, Chronic Hypertrophic Pyloric—Chronic hypertrophic pyloric gastropathy as a cause of pyloric obstruction in the dog, 157

GASTROINTESTINAL TRACT
Chronic hypertrophic pyloric gastropathy as a cause of pyloric obstruction in the dog, 157
Evaluation of fluorescein dye as an indicator of small intestinal viability in the horse, 257
Chronic intestinal intussusception in two horses, 383
Vaginal evisceration of the small intestine in three mares, 385
Ileal impaction in the horse, 570
Chronic eosinophilic pancreatitis and ulcerative colitis in a horse, 809
Fiberoptic gastroduodenoscopy in the horse, 965
Intestinal strangulation associated with omphaloarteritis in a calf, 1099

Gentamicin-associated renal failure in the dog, 686
Granulomatous meningoencephalomyelitis, 138
Guinea Pigs—Trichobezoar in a guinea pig, 812

H

Halothane—Rate of rise of arterial carbon dioxide tension in the halothane-anesthetized horse, 374
Heart—Efficacy of digoxin administration in dogs with idiopathic congestive cardiomyopathy, 162
Heart—Microsurgical management of tetralogy of Fallot in a cat, 708
Heart Defects, Congenital—Common ventricle with separate pulmonary outflow chamber in a horse, 1210

HEARTWORMS—*See* DIROFILARIASIS
Hernia—Medical treatment of gastroesophageal intussusceptive hiatal hernia, 797
History—AVMA grant for project on industrial history, 546
Hormones—Uterine involution in mares treated with progesterone and estradiol-17β, 252
Housing—Interactions of management and animal performance in a swine feedlot, 986

HUMAN/ANIMAL BOND
Human/animal bond journal debuts, 226
Pet loss brochure, 1984 AVMA activities summary, 340
Board discusses human/animal bond, 860
Human/animal bond projects, 1270

HUMANE MOVEMENT
Animal rights and speciesism, 123
Favors animal tests, 123
Justifying animal experimentation, 125
Research animal welfare, 126, 342
Council discusses intensive livestock production, 132
Animal welfare, 1984 AVMA activities summary, 335

Intensive livestock production, 342
Who comes first, animals or people?, 347
Recognizing and evaluating inhumane care, 433
Requests explicit information, 778
Board discusses animal welfare enforcement, 861
Humane research policy revised, 1274

Hypersplenism—Idiopathic hypersplenism in a ferret, 693
Hypoglycemia associated with nonislet cell tumor in 13 dogs, 53
Hypothyroidism—Neurologic manifestations of cerebrovascular atherosclerosis associated with primary hypothyroidism in a dog, 499

I

Ileal impaction in the horse, 570
Immunodeficiency manifested by oral candidiasis and bacterial septicemia in foals, 1195
Immunoenzyme Techniques—Evaluation of the radial immunodiffusion enzyme assay for the detection of antibodies to pseudorabies virus, 1080

IMMUNOLOGY
Vaccination against feline viral rhinotracheitis in kittens with maternally derived feline viral rhinotracheitis antibodies, 149
Sulfadiazine-induced allergy in six Doberman Pinschers, 479
Suspected immune-mediated megakaryocytic hypoplasia or aplasia in a dog, 1313

IMPAIRED VETERINARIANS
Committee on Impaired Veterinarians, 1984 AVMA activities summary, 332
Impaired-veterinarian program being developed, 453
Board discusses seminar on impairment, 859
Committee prepares for seminar on impairment, 1153

INCOME
1983 incomes of US veterinarians, 395
1983 US veterinary practice income, expenses, and financial ratios, 605
1983 professional incomes of US veterinarians, by hours worked and years since graduation, 1108

Information Retrieval—Searching the veterinary literature via computer, 1058

INSURANCE
Professional Liability Insurance Trust meets, 18
Group insurance, 1984 AVMA activities summary, 329
AVMA professional liability insurance, 1984 AVMA activities summary, 330
Guidelines for spay-and-neuter clinics, pet insurance, and national emergencies, 1984 AVMA activities summary, 337
AVMA vs "non-can" disability insurance, 545
AVMA group insurance rates hold steady; dividend declared, 545
Council discusses pet health insurance, 766
Two-month AVMA special life insurance offer: June 1-July 31, 1985, 857
Board discusses insurance matters, 861
AVMA insurance retirement provisions, 863
AVMA's veterinary practice employee insurance, 1042

Interpretive Summaries, 40, 146, 246, 352, 462, 562, 674, 780, 894, 1068, 1172, 1278
Intestinal decompression: Preliminary study in the horse, 1304
Intubation—Intestinal decompression: Preliminary study in the horse, 1304
Intussusception—Chronic intestinal intussusception in two horses, 383
Ivermectin for treatment of nasal capillariasis in a dog, 174

J

Journals—Publications, 1984 AVMA activities summary, 340

K

Kidney—Gentamicin-associated acute renal failure in the dog, 686
Kidney, Polycystic—Polycystic kidneys in a ferret, 74

L

Laceration, Perineal—Surgical management of perineal lacerations and rectovestibular fistulae in the mare: A retrospective study of 47 cases, 265
Correction: 1038

LAMENESS
Bilateral bicipital bursitis in a cow, 604
Osteochondritis dissecans of the sagittal ridge of the third metacarpal and metatarsal bones in horses, 1186
Pelvic limb lameness due to malignant melanoma in a horse, 1215

Laryngeal paralysis in dogs: A review of 23 cases, 377

LAS VEGAS MEETING
Las Vegas: The "Entertainment Capital" is ideal family destination, 16
Scenic grandeur surrounds Las Vegas, 222
Glitter Gulch: A five-block stretch of neon, 451
"World's friendliest"—and largest—hotel is AVMA convention headquarters in Las Vegas, 770
Las Vegas caters to children, too, 862
Nevadans prepare for AVMA meeting, 864
Las Vegas menu revue, 1273

LAS VEGAS MEETING, CONVENTION PROGRAM
Your invitation to Las Vegas, 897
1985 convention advisory committee, 898
AVMA officers, 1984-1985, 898
Executive Board, 898
House Advisory Committee, 898
Executive and legislative sessions, 899
Agenda—House of Delegates, 899
1985 House of Delegates, 900
Reference Committees, 901
Registration information, 902
Point credit for reserve officers, 902
Convention entertainment, 902
General tour information, 903
Youth activities program, 903
Message from Auxiliary president, 907
1984-1985 Auxiliary roster, 907
Auxiliary to the AVMA, 907
Student AVMA, 908
AVMA Placement Service, 908
Student AVMA Auxiliary, 908
Autotutorial program, 909
Committee for Scientific Program, 910
Scientific program, 911
Seminar program, 925
Other groups and activities, 929
Programs of other groups, 931
Educational exhibits, 939
Professional exhibits at Las Vegas, 940

Law—Virginia veterinarians defeat SPCA clinic bid, 1153

LEGAL BRIEF
Comments on "Legal Brief" (Pub Sept 1, 1984, p 498), 4
Partnership contracts—some pointers, 32
Likes Legal Briefs, 214
Dissolution of a partnership, 235
Animal technicians and the practice of veterinary medicine, 458
Refusal to treat and refusal to continue treatment, 666
Legal considerations in embryo transfers, 874
Promising a result, 1166

Legislative Activities, 1984 AVMA activities summary, 325

LETTERS
Comments on "Legal Brief," 4
International aspects of rabies, 5
Tear substitutes and atropine, 27
Veterinary service fee for military personnel, 29
Favors animal tests, 123
Animal rights and speciesism, 123
Deplores vaccine misuse, 124
Automobile-induced trauma, 125
Justifying animal experimentation, 125
Veterinary ethics and ecologic concerns, 212
Likes Legal Briefs, 214
Allow for obesity, 320
Yohimbine dosage, 320
Consider xylazine too, 321
Canine stress syndrome, 432
Recognizing and evaluating inhumane care, 433
Roadway hazards, 540
Questions study design, 540, 541
Reunion of veterinary officers, 558
Exchange of viewpoints on arrhythmias, 648
Promiscuous use of antibiotics, 760
Be alert for *Babesia gibsoni* infections, 762
More on canine ehrlichiosis, 762, 778
Requests explicit information, 778
Focus on ethics of questionable procedure, 852
Brains in heads rather than in machines, 1035
Response to comments on ecologic concerns, 1038
Correction, 1038
Comments on vitamin K, 1038
Abhors use of thallium for wildlife population control, 1039
Dialogue on xylazine, 1140, 1141
Requests evidence of safety and efficacy, 1144
Questions conclusions, 1144
Theory about malignant hyperthermia, 1259
Computer marketing, 1259
Representation of private practitioner, 1262

Leukemia—Clinicopathologic aspects of acute leukemias in the dog, 681
Leukemia—Feline leukemia update discussed by council, 1266
Leukocytes—Neutrophilic leukocytosis associated with metastatic fibrosarcoma in a dog, 806
Licensure—Council discusses state licensure reciprocity, 766
Licensure—Council discusses state licensure reciprocity, 1155
Lipoma, Infiltrative—Infiltrative lipoma in three dogs, 81
Literature Search—Searching the veterinary literature via computer, 1058
Liver Abscess—Vagus indigestion syndrome resulting from a liver abscess in dairy cows, 1297
Liver Cirrhosis—Hepatic cirrhosis associated with long-term primidone therapy in a dog, 978
Livestock ID proposal, 1156
Livestock Management—Potential impact of on-farm microcomputers on livestock management and veterinary practice, 240

M

Malaria—Foundation devoted to malaria and babesiosis, 18
Mammae—Firm udder in periparturient ewes with lymphocytic accumulations, retrovirus infection, and milk unavailable at the teat, 391
Mange—Regulation of mange products, 127, 346

MANPOWER
Reagan vetoes health manpower and National Institutes of Health bills, 30
Health manpower reauthorization, 126, 346
Manpower study, 1984 AVMA activities summary, 336
AVMA manpower committee convenes, 445

Mastitis, 1984 AVMA activities summary, 338
Mastitis—Veterinarians attend mastitis conference, 773
Melanoma—Pelvic limb lameness due to malignant melanoma in a horse, 1215
Membership, 1984 AVMA activities summary, 325

MILITARY
Veterinary service fee for military personnel, 29
Military veterinary clinic user fees, 126, 342
Reunion of veterinary officers, 558
The future of our military veterinary services, 888

MILK
AVMA supports pasteurization of milk and milk products, 30
Council discusses milk-quality incentives, 766
Pasteurized milk as a vehicle of infection in an outbreak of listeriosis, 1220
Council discusses milk quality standards, 1267

Muscles—Myotonic dystrophy-like disease in a dog, 495
Mycoses—Submandibular and disseminated zygomycosis (mucormycosis) in feeder pigs, 171
Mycoses—Gastric zygomycosis (mucormycosis) in 4 suckling pigs, 393
Myopathy, Fibrotic—Semitendinosus tenotomy for treatment of fibrotic myopathy in the horse, 565

N

Nasal Cavity—Unusual nasal foreign body in a dog, 710
Nasal Septum—Contribution of the nasal septum to the radiographic anatomy of the equine nasal cavity, 590
National Emergencies—Council discusses veterinary services in a national emergency, 131
National Emergencies—Guidelines for spay-and-neuter clinics, pet insurance, and national emergencies, 1984 AVMA activities summary, 337

NEOPLASMS
Hypoglycemia associated with nonislet cell tumor in 13 dogs, 53
Canine hemangiosarcoma: Retrospective analysis of 104 cases, 56
Prostatic adenocarcinoma in a castrated dog, 78
Laryngeal carcinoma in a cat, 80
Infiltrative lipoma in three dogs, 81
Compound odontoma in a dog, 177
Mammary scirrhous carcinoma in a dog, 398
Orbital neoplasia in 23 dogs, 489
Calcium chloride for treatment of subcutaneous lipomas in dogs, 492
Malignant melanoma of the conjunctiva in a cat, 505
Clinicopathologic aspects of acute leukemias in the dog, 681
Disseminated cutaneous squamous cell carcinoma in a ferret, 702
Chondrosarcoma arising in a multilobular chondroma in a cat, 804
Neutrophilic leukocytosis associated with metastatic fibrosarcoma in a dog, 806
Costal bone changes similar to hypertrophic osteopathy associated with pulmonary and abdominal mesothelioma in a dog, 1100
Pelvic limb lameness due to malignant melanoma in a horse, 1215
Neoplasia of the equine urinary bladder as a cause of hematuria, 1294
Generalized cardiomegaly in a dog, 1327

Nephrotic Syndrome—Hypoalbuminemia-related platelet hypersensitivity in two dogs with nephrotic syndrome, 485

NEUROLOGY
Granulomatous meningoencephalomyelitis, 138
Laryngeal paralysis in dogs: A review of 23 cases, 377
Vertebral fracture, extensor hypertonia of thoracic limbs, and paralysis of pelvic limbs (Schiff-Sherrington syndrome) in an Arabian foal, 387
Degenerative myelopathy in an adult Miniature Poodle, 1213

NEW ORLEANS MEETING
AVMA convention in New Orleans, 1984 AVMA activities summary, 339

Nocardia asteroides infection in horses: A review, 273

NOMENCLATURE
Standard nomenclature and coding, 1984 AVMA activities summary, 338
Committee sponsors SNOVET workshops, 447
Board discusses nomenclature and coding, 860

Nursing—Professional nursing and nursing diagnoses, 34

O

Onchocerciasis—Prevalence of equine onchocerciasis in southeastern and midwestern United States, 1202

OPHTHALMOLOGY
Surgical correction of third eyelid prolapse in dogs, 83
Letters: 760
Congenital aniridia in a pony, 281
Mycotic keratitis in a dog: Concurrent *Aspergillus* sp and *Curvularia* sp infections, 975
Ulcerative keratitis associated with *Salmonella arizonae* infection in a horse, 1219

Orchiectomy—Effect of unilateral orchiectomy on semen quality in bulls, 1291
Orthopedics—Ventrolateral approach for repair of sacroiliac fracture-dislocation in the dog and cat, 1198
Osteoarthrosis—Bilateral degenerative coxofemoral joint disease in a foal, 284
Osteochondritis dissecans of the sagittal ridge of the third metacarpal and metatarsal bones in horses, 1186
Osteopathy—Hypertrophic osteopathy associated with a bronchial foreign body and lobar pneumonia in a dog, 698
Osteopathy—Costal bone changes similar to hypertrophic osteopathy associated with pulmonary and abdominal mesothelioma in a dog, 1100

OVINE SPECIES
Firm udder in periparturient ewes with lymphocytic accumulations, retrovirus infection, and milk unavailable at the teat, 391
Influence of fever on the pharmacokinetics of gentamicin in ewes, 788
Ovine abortion associated with an anaerobic bacterium, 789
Prevalence and causes of ram epididymitis in Utah, 798
Visna-like disease in a Minnesota sheep, 811
Arthritis associated with ovine progressive pneumonia, 814
Serologic prevalence of toxoplasmosis in cattle, sheep, goats, pigs, bison, and elk in Montana, 969
Water deprivation-sodium chloride intoxication in a group of feeder lambs, 977
Changes in prevalence and susceptibility of obligate anaerobes in clinical veterinary practice, 1086

P

PANCREATITIS
Chronic eosinophilic pancreatitis and ulcerative colitis in a horse, 809

Paragonimiasis in a dog: Treatment with praziquantel, 1319
Parasites, External—Double-blind flea hyposensitization trial in cats, 677

PARASITES, INTERNAL
Ivermectin for treatment of nasal capilariasis in a dog, 174
Periorchitis after tetramisole treatment in bulls implanted with *Setaria labiatopapillos*, 588
Letter: 1144
Encephalitozoonosis in a parrot, 700
Coccidiosis caused by *Eimeria scabra* in a finishing hog, 981
Control of nematodes in dairy heifers by prophylactic treatments with albendazole in the spring, 1071
Pneumonitis associated with occult heartworm disease in dogs, 1097
Angiostrongylosis in a Greyhound, 1101
Peritoneal cestodiasis in a dog, 1103
Taenia saginata cysticercosis in an Ohio cattle feeding operation, 1281

Parasitology—Evaluation of febantel used concurrently with piperazine citrate in horses, 262
Partnership contracts—some pointers, 32
Partnerships—Dissolution of a partnership, 235
Pasteurellosis—Bacterial septicemias in two psittacine birds, 983
Patella—Trochlear recession for correction of luxating patella in the dog, 365
Patent term restoration, 126, 342
Pemphigus foliaceus in dogs: A review of 37 cases, 59
Pemphigus foliaceus of the footpads in three dogs, 67
Periodontal Disease—A correlative study of the clinical and radiographic signs of periodontal disease in dogs, 1286

Peritoneal Fluid—Effects of enterocentesis on peritoneal fluid constituents in the horse, 1301
Pesticide labeling regulations, 347
Pet food labeling, 127, 346

PETS
Pets in public housing, 127,346
Local involvement is prescription for Pet Week success, 440
One-month countdown to National Pet Week, 657
HUD proposes rules for pets in federally assisted housing, 664
Come Alive in '85 for National Pet Week, 769
Council discusses pet vaccination brochure, 1042
AVMA submits guidelines on pets in public housing, 1270

Phalanges—Noncomminuted fractures of the proximal phalanx in 69 horses, 573
Phycomycosis—Gastrointestinal phycomycosis in 63 dogs, 473
Phycomycosis—Phycomycosis caused by *Basidiobolus haptosporus* in two horses, 703

Pharyngeal polyps in two feline siblings, 1311
Piperazine—Evaluation of febantel used concurrently with piperazine citrate in horses, 262
Placement service, 1984 AVMA activities summary, 339
Plasmapheresis as adjuvant therapy for autoimmune hemolytic anemia in two dogs, 691
Platelets—Hypoalbuminemia-related platelet hypersensitivity in two dogs with nephrotic syndrome, 485
Pleural Effusion—Pericardial and pleural effusion in a dog, 89
Pneumonia—Clinical and radiographic findings in *Corynebacterium equi* pneumonia of foals, 593
Pneumonia—Hypertrophic osteopathy associated with a bronchial foreign body and lobar pneumonia in a dog, 698
Pneumonitis associated with occult heartworm disease in dogs, 1097

PNEUMOTHORAX
Surgical correction of primary pneumothorax in a dog, 75
Pneumothorax and fractured rib in a cat, 291
Bullous emphysema and recurrent pneumothorax in the dog, 971

Poisons—Council discusses national poison network, 766
Politics—AVMAPAC had a winning year, 1984 AVMA activities summary, 330
Politics—Board discusses AVMAPAC contributions, 861
Polyps—Pharyngeal polyps in two feline siblings, 1311

POPULATION CONTROL
Spay costs and pet population control, 34
Guidelines for spay-and-neuter clinics, pet insurance, and national emergencies, 1984 AVMA activities summary, 337
Abhors use of thallium for wildlife population control, 1039

PORCINE SPECIES
Submandibular and disseminated zygomycosis (mucormycosis) in feeder pigs, 171
Postweaning anestrus in swine, 287
Transmissible gastroenteritis in nursing pigs, 290
Postweaning diarrhea in pigs, 369
Gastric zygomycosis (mucormycosis) in 4 suckling pigs, 393

Susceptibility of *Bacteroides* from swine abscesses to 13 antibiotics, 814
Serologic prevalence of toxoplasmosis in cattle, sheep, goats, pigs, bison, and elk in Montana, 969
Susceptibility of *Bacteroides* from swine abscesses to 13 antibiotics, 970
Coccidiosis caused by *Eimeria scabra* in a finishing hog, 981
Interactions of management and animal performance in a swine feedlot, 986
Evaluation of the radial immunodiffusion enzyme assay for the detection of antibodies to pseudorabies virus, 1080
Selenium toxicosis in swine, 1084
Anesthetic potency of nitrous oxide in young swine, 1089
Potency of isoflurane and nitrous oxide in swine, 1112

Preventive Medicine—Quarantine fees, avian influenza, and brucellosis, 1984 AVMA activities summary, 338
Primates—Dr. Johnsen new head of NIH primate centers, 547
Primidone—Hepatic cirrhosis associated with long-term primidone therapy in a dog, 978
Protothecosis—Unsuccessful treatment of disseminated protothecosis in a dog, 705
Pseudorabies—Evaluation of the radial immunodiffusion enzyme assay for the detection of antibodies to pseudorabies virus, 1080
Psittacosis, 1984 AVMA activities summary, 338
Public Information Division, 1984 AVMA activities summary, 325

PUBLIC RELATIONS
Image integrity, 144
Leadership conference premiers, 437
Council discusses PR for large animal practice, 1041
Council unveils public relations goals, 1041

Pyloric Obstruction—Chronic hypertrophic pyloric gastropathy as a cause of pyloric obstruction in the dog, 157
Pythiosis—Cutaneous pythiosis in beef calves, 984

R

RABIES
International aspects of rabies, 5
Compendium of Animal Rabies Vaccines, 1985, 13
Council discusses rabies vaccine requirements, 134
Rabies vaccine regulations, 347
Most rabies vaccines must be administered intramuscularly, 545
Uniform requirements set for canine rabies vaccinations, 1269

Race, Foot—Three to run marathon against world hunger, 547

RADIOGRAPHY
Contribution of the nasal septum to the radiographic anatomy of the equine nasal cavity, 590
Techniques to aid in the radiographic diagnosis of heartworm disease, 1063
A correlative study of the clinical and radiographic signs of periodontal disease in dogs, 1286

RADIOLOGY
Pericardial and pleural effusion in a dog, 89
Foreign body obstruction and peritonitis in a dog, 183
Pneumothorax and fractured rib in a cat, 291
Mammary scirrhous carcinoma in a dog, 398
Round space filling defect suggestive of a foreign body in a dog, 507
Pectus excavatum with a left lateral deviation of the heart in a cat, 508
Soft tissue mass with a mineralized capsule in a horse, 609
Radiopaque linear foreign body in a horse, 711
Trichobezoar in a guinea pig, 812
Compressed trachea in a filly, 993
Radiopaque foreign body within the thoracic cavity in a cat, 1111
Diskospondylitis of T9-T10 and T13-L3 with vertebral osteophytosis in a dog, 1221
Generalized cardiomegaly in a dog, 1327

Radionuclide Imaging—Use of ^{111}In-labeled autologous leukocytes to image an abdominal abscess in a horse, 1320
Rectovulvar Fistula—Surgical management of perineal lacerations and rectovestibular fistulae in the mare: A retrospective study of 47 cases, 265
Correction: 1038
Renal Failure—Hemodialysis of a dog with acute renal failure, 1323

REPRODUCTION
Animal and Plant Health Inspection Service proposes rules for importation of animal embryos, 31
Uterine involution in mares treated with progesterone and estradiol-17β, 252
Scrotal circumference adjustment factors for age and weight differences in beef bulls, 580
Fertility of young mares after long-term anabolic steroid treatment, 583
Periorchitis after tetramisole treatment in bulls implanted with *Setaria labiatopapillos*, 588
Letter: 1144
Efficacy and toxicity of estrogens commonly used to terminate canine pregnancy, 783
Ovine abortion associated with an anaerobic bacterium, 789
Legal considerations in embryo transfers, 874

RESEARCH
Research meeting dedicated to Dr. Olson, 11
Avian research grants, 19
Disclosing commercial connections, 34
Research and diagnosis reforms recommended, 224
Bond-research grants, 225
The Animal Medical Center receives donation, 227
Benefits derived from research on food animals, 236
Funding animal disease research, 1984 AVMA activities summary, 337
Grants awarded for study of equine diarrhea syndrome, 546
Fish study grants available from FDA, 769
Veterinarian in Crohn's disease research, 771
Board endorses Winrock report, 861
Advance reported toward coccidiosis vaccine, 864
National Research Council's new committee on animal health research meets, 878
President's budget hits hard on livestock disease control and animal health research activities, 879
Major gift to AVMA Foundation funds canine and feline research, 1043
New veterinary research award instituted, 1053
Agriculture Secretary Block outlines farm bill proposal, 1163

Reserpine toxicosis in a horse,

RESIDUES
Views on chloramphenicol, 144
Sulfamethazine residues, 1155
USDA opens food animal residue avoidance databank (FARAD), 1163

Respiration—Tracheal compression secondary to abscessation of cranial mediastinal lymph nodes in a horse, 283
Retrovirus Infection—Firm udder in periparturient ewes with lymphocytic accumulations, retrovirus infection, and milk unavailable at the teat, 391
Rhinophycomycosis—Surgical and medical management of rhinophycomycosis (conidiobolomycosis) in a horse, 1105
Rhinotracheitis, Feline Viral—Vaccination against feline viral rhinotracheitis in kittens with maternally derived feline viral rhinotracheitis antibodies, 149
Ribs—Costal bone changes similar to hypertrophic osteopathy associated with pulmonary and abdominal mesothelioma in a dog, 1100
Rocky Mountain spotted fever in dogs and its differentiation from canine ehrlichiosis, 465

S

Salmonella—Ulcerative keratitis associated with *Salmonella arizonae* infection in a horse, 1219

Scrotal circumference adjustment factors for age and weight differences in beef bulls, 580
Selenium toxicosis in swine, 1084
Semen Evaluation—Effect of unilateral orchiectomy on semen quality in bulls, 1291
Serodiagnosis—Evaluation of the radial immunodiffusion enzyme assay for the detection of antibodies to pseudorabies virus, 1080
Serotesting—Serologic prevalence of toxoplasmosis in cattle, sheep, goats, pigs, bison, and elk in Montana, 969
Serotesting—Enigmatic psittacine chlamydiosis: Results of serotesting and isolation attempts, 1978 through 1983, and considerations for the future, 1075
Sesamoids—Axial sesamoid injuries associated with lateral condylar fractures in horses, 278

SKIN
Urinary tract infection associated with long-term corticosteroid administration in dogs with chronic skin diseases, 43
Pemphigus foliaceus in dogs: A review of 37 cases, 59
Pemphigus foliaceus of the footpads in three dogs, 67
Double-blind flea hyposensitization trial in cats, 677
Cutaneous pythiosis in beef calves, 984

Sodium Chloride—Water deprivation-sodium chloride intoxication in a group of feeder lambs, 977

SPECIAL COMMENTARY
Unique characteristics of the National Animal Disease surveillance system, 35
Potential impact of on-farm microcomputers on livestock management and veterinary practice, 240
Eradicating animal diseases: A twofold benefit for the consumer, 883
Searching the veterinary literature via computer, 1058

Splinting device for hindlimb fractures in horses, 1204

Spondylitis—Diskospondylitis of T9-T10 and T13-L3 with vertebral osteophytosis in a dog, 1221
State Board Examinations, 24, 135, 227, 454, 554, 658, 775, 871, 1055, 1160, 1275

STATE VETERINARY ASSOCIATIONS
Special award presented by Michigan VMA, 19
Indiana hosts Nine-States Conference, 20
Denver VMS officers, 21
Honolulu hosts HVMA, 21
Dr. Swanson is Colorado veterinarian of year, 22
Dr. Sessions honored as veterinarian of the year at Maryland meeting, 134
Kentucky hosts Mid-America Conference, 133
Dr. Meriweather chosen for SDVMA annual award, 225
Arizona VMA meets at Tucson, 226
Officers of the VMA of New York City, 227
Call for speakers for Eastern States meeting, 227
Three share top PVMA award for avian influenza work, 448
Florida hosts foreign veterinary leaders, 450
New York State VMS honors Dr. Case, 453
Arkansans brave storm to attend meeting, 548
Kansas names Dr. Gatz veterinarian of year, 549
Idaho practitioner honored by colleagues, 550
CEO for South Carolina, 550
Honolulans take office, 551
Dr. Hofmann is Oklahoma veterinarian of 1985, 552
Washington names CEO, 553
Eastern States Veterinary Conference, 656
Western States Conference dedicated to Dr. Miller, 767
Oregon meeting offers a tropical touch, 771
Dr. Powell named Missouri veterinarian of the year, 772
West Virginia VMA honors Dr. Spencer, 773
Officers and awardees in Massachusetts, 774
Indiana declared TB free at annual meeting, 866
Houston hosts Texas VMA, 867
Ohio VMA honors Dean Wright, 868
Dr. Edwards is top awardee in Nebraska, 869
Louisiana selects Dr. Thayer as veterinarian of the year, 870
California VMA moves, 1042
Illinois State VMA meets in Chicago, 1052
DC leaders take office, 1053
Dr. Hagerty named Minnesota veterinarian of the year, 1054
Council discusses "rebates and kickbacks" to state associations, 1155
Oregon VMA relocates, 1156
New Jersey VMA meets, 1157

Steroids, Anabolic—Fertility of young mares after long-term anabolic steroid treatment, 583
Streptococcus—Tracheal compression secondary to abscessation of cranial mediastinal lymph nodes in a horse, 283
Student AVMA Autotutorial Excellence Awards, 452
Student enrollment, 1984–1985, 653

SURGERY
Surgical correction of primary pneumothorax in a dog, 75
Surgical correction of third eyelid prolapse in dogs, 83
Letters: 760
Surgical management of perineal lacerations and rectovestibular fistulae in the mare: A retrospective study of 47 cases, 265
Correction: 1038
Trochlear recession for correction of luxating patella in the dog, 365
Chronic intestinal intussusception in two horses, 383
Laminectomy for treatment of cauda equina syndrome in a cat, 904
Semitendinosus tenotomy for treatment of fibrotic myopathy in the horse, 565
Antimicrobial prophylaxis in veterinary surgery, 990
Endotracheal intubation to facilitate oropharyngeal surgery, 1185
Ventrolateral approach for repair of sacroiliac fracture-dislocation in the dog and cat, 1198

T

Taxes—Help AVMA gain repeal of auto-use log rule, 655
Taxes—IRS vehicle-log rule discussed by council, 765

TERMINOLOGY
Language of science, 144
Veterinary products defined by council, 1154
Council discusses dispensing vs merchandising, 1154

Testis—Complications from a testicular prosthesis in a stallion, 390
Letters: 852, 853
Testis—Periorchitis after tetramisole treatment in bulls implanted with *Setaria labiatopapillos*, 588
Letter: 1144
Tetramisole—Periorchitis after tetramisole treatment in bulls implanted with *Setaria labiatopapillos*, 588
Letter: 1144
Thallium intoxication in a dog, 498

THERIOGENOLOGY
Scrotal circumference adjustment factors for age and weight differences in beef bulls, 580
Fertility of young mares after long-term anabolic steroid treatment, 583
Periorchitis after tetramisole treatment in bulls implanted with *Setaria labiatopapillos*, 588
Letter: 1144
Efficacy and toxicity of estrogens commonly used to terminate canine pregnancy, 783
Ovine abortion associated with an anaerobic bacterium, 789

Thrombocytopenia associated with vaccination of a dog with a modified-live paramyxovirus vaccine, 1217
Thyroid Function—Thyrotropin stimulation test for evaluation of thyroid function in psittacine birds, 47

TOPICS IN DRUG THERAPY
Newer concepts in treatment of secretory diarrheas, 86
Cisplatin, a new antineoplastic drug in veterinary medicine, 288

Antimicrobial prophylaxis in veterinary surgery, 990

TOXICOLOGY
Thallium intoxication in a dog, 498
Water deprivation-sodium chloride intoxication in a group of feeder lambs, 977
Reserpine toxicosis in a horse, 980
Endrin toxicosis in a cat, 988
Selenium toxicosis in swine, 1084

Toxoplasmosis—Serologic prevalence of toxoplasmosis in cattle, sheep, goats, pigs, bison, and elk in Montana, 969
Trachea—Laryngeal carcinoma in a cat, 80
Tracheal compression secondary to abscessation of cranial mediastinal lymph nodes in a horse, 283
Tranquilizing Agents—Behavioral indications for phenothiazine and benzodiazepine tranquilizers in dogs, 1192
Trichinosis surveillance, 1982, 1110
Tuberculosis—State free of bovine tuberculosis, 132
Tuberculosis—Bovine TB-free state, 446

U

Ulcers, Gastric—Exsanguination due to gastric ulceration in a foal, 280

US DEPARTMENT OF AGRICULTURE
USDA appropriations for fiscal 1985, 126, 342, 1266
APHIS user fees, 127
USDA accreditation, 1984 AVMA activities summary, 337

Uterus—Segmental aplasia of the uterine horn in a cat, 179
Uterus—Uterine involution in mares treated with progesterone and estradiol-17β, 252

V

Vaccines—Deplores vaccine misuse, 124
Vaccines—Requests evidence of safety and efficacy, 1144

VACCINATION
Interactions of management and animal performance in a swine feedlot, 986
Council discusses vaccination clinics, 1155
Thrombocytopenia associated with vaccination of a dog with a modified-live paramyxovirus vaccine, 1217

Vagus indigestion syndrome resulting from a liver abscess in dairy cows, 1297
Vesicular Stomatitis—Economic impact of an epizootic of bovine vesicular stomatitis in California, 370

VETERINARY COLLEGES
Tuskegee veterinarian named dean in Nigeria, 20
Illinois veterinarians honored by UI alumni, 21
Endowment fund at Oklahoma State honors Dr. Johnson, 22
Lecture-series grant at Oklahoma State, 23
Accreditation of colleges, 1984 AVMA activities summary, 331
Women dominate at UCD enrollees, 347
Endowed avian chair honors Dr. Pomeroy, 445
Ontario appoints dean, 446
Kennel clubs donate toward equipment at college, 453
Million-dollar gift endows chair at KSU, 546
Biotechnology grant to Illinois, 548
Museum exhibit honors Pennsylvania centennial, 550
Computer donated to California, 551
Award-winning swine program by Ohio State faculty members, 551
Purdue alumni honored, 553
Michigan State honors alumni, 553
Oklahoma names dean, 864
Centennial awards at UP, 867
Dean named at Virginia-Maryland, 1269

VETERINARY EDUCATION
Health Professions Student Loan delinquency rates published, 31
Educational opportunities, 106, 195, 302, 414, 518, 628, 738, 829, 1012, 1120, 1238, 1334
Health and education appropriations, 127, 346
Pathology fellowship, 133
National Board Examination, 1984 AVMA activities summary, 331
Graduates of foreign colleges, 1984 AVMA activities summary, 331
Student loans, 1984 AVMA activities summary, 339
1985 National Board Examination approved, 657
Video laboratory system, 658
Commission for foreign graduates urges states to adopt NBE standard, 771
Board discusses improving NBE and CCT, 860
Team effort saves critically ill foals, 865
Extension of employee educational assistance proposed, 1162

VETERINARY MEDICINE TODAY
Granulomatous meningoencephalomyelitis, 138
Techniques to aid in the radiographic diagnosis of heartworm disease, 1063

VETERINARY PRACTICE
Accreditation suspended, 18, 1156
Industrial employment of veterinarians, 84
Council discusses use of volunteer assistants, 131, 765
Council discusses alternative forms of therapy, 131, 765, 869
Council discusses right to refuse calls, 131
Potential impact of on-farm microcomputers on livestock management and veterinary practice, 240
Right to refuse service, alternate therapies, and workplace liability, 1984 AVMA activities summary, 338
Accreditation suspended for flagrant violations, 445
Refusal to treat and refusal to continue treatment, 666
Pregnancy in the workplace, 765
Accreditations suspended by USDA, 769
Economic decisions in veterinary practice: A method for field use, 792
Correction: 1326
Board to convene food animal task force, 857
Four more veterinarians' accreditation suspended, 864
Senate bill would grant federal charter to National Academies of Practice, 878
USDA suspends accreditations, 1043
Council discusses right to refuse or terminate service, 1155
Representation of private practitioner, 1262
Sale-barn dilemma concerns council, 1265

VIRUSES
Inclusions in equine cytologic specimens, 359
California serogroup virus infection in a horse with encephalitis, 389
Firm udder in periparturient ewes with lymphocytic accumulations, retrovirus infection, and milk unavailable at the teat, 391
Bovine viral diarrhea in a newborn calf, 600
Visna-like disease in a Minnesota sheep, 811
Thrombocytopenia associated with vaccination of a dog with a modified-live paramyxovirus vaccine, 1217

Visna-like disease in a Minnesota sheep, 811
Vitamins—CVM suspends menadione, 769
Vitamins—Comments on vitamin K, 1038

W

WASHINGTON NEWS
AVMA meets with FDA commissioner, 30
AVMA supports pasteurization of milk and milk products, 30
Bill to limit antibiotics in feed, 30
Reagan vetoes health manpower and National Institutes of Health bills, 30
Stopgap amendments to animal biologics act proposed, 31

Health Professions Student Loan delinquency rates published, 31
Animal and Plant Health Inspection Service proposes rules for importation of animal embryos, 31
FDA asks state help with illegal drug use, 232
Controlled substances act amendments enacted, 232
President signs stringent hazardous waste bill, 232
CVM advisory committee meeting, 662
Antibiotics in animal feed and antibiotic resistance subjects of House hearing, 662
House Committee reviews adequacy of laws governing biotechnology, 664
HUD proposes rules for pets in federally assisted housing, 664
Cabinet group publishes proposal for coordinated regulation of biotechnology, 665
FTC considers rules on ophthalmic practice, 665
Hearing explores whether antibiotic use is imminent health hazard, 877
Dr. Crawford asks for continuing dialogue on illegal prescription drug distribution, 877
National Research Council's new committee on animal health research meets, 878
Senate bill would grant federal charter to National Academies of Practice, 878
President's budget hits hard on livestock disease control and animal health research activities, 879
AVMA joins EPA working group that will revise hazardous waste guide, 879
Panel advises against veterinary hospital wastes being included in revised EPA infectious waste guide, 1162
Extension of employee educational assistance proposed, 1162
User fee proposal could put some biologics producers out of business, 1162
FDA final rules on marketing new drugs and antibiotics for human use, 1163
USDA opens food animal residue avoidance databank (FARAD), 1163
Agriculture Secretary Block outlines farm bill proposal, 1163

WASHINGTON STATUS REPORT
USDA appropriations for fiscal 1985, 126, 342
Continuing resolution on funding, 126, 342
FTC jurisdiction, 126, 342
Racehorse medication, 126, 342
Research animal welfare, 126, 342
Patent term restoration, 126, 342
Controlled substances act amendments, 126, 342
Military veterinary clinic user fees, 126, 342
Animal biologics, 126, 342
Hazardous waste management, 126, 342
Health manpower reauthorization, 126, 346
Health and education appropriations, 127, 346
APHIS user fees, 127
Extra-label use of drugs in food animals, 127, 346
FDA guideline on veterinary prescriptions, 127, 346
Infectious hazardous waste, 127, 346
Antibiotics in animal feed, 127, 346
Ethylene oxide exposure, 127, 346
Pets in public housing, 127, 346
Regulation of mange products, 127, 346
Sensitivity of method, 127
Pet food labeling, 127, 346
Bulk drug use, 127, 346
Highly pathogenic avian influenza, 127, 347
Antibiotics in feed ban, 342
Intensive livestock production, 342
Drug labeling of FDA approval, 346
Drug ingredient labeling, 346
Pesticide labeling regulations, 347
Rabies vaccine regulations, 347

Water deprivation-sodium chloride intoxication in a group of feeder lambs, 977

WHAT IS YOUR DIAGNOSIS?
Pericardial and pleural effusion in a dog, 89
Foreign body obstruction and peritonitis in a dog, 183
Pneumothorax and fractured rib in a cat, 291
Mammary scirrhous carcinoma in a dog, 398
Round space filling defect suggestive of a foreign body in a dog, 507
Pectus excavatum with a left lateral deviation of the heart in a cat, 508
Soft tissue mass with a mineralized capsule in a horse, 609
Radiopaque linear foreign body in a horse, 711
Trichobezoar in a guinea pig, 812
Compressed trachea in a filly, 993
Radiopaque foreign body within the thoracic cavity in a cat, 1111
Diskospondylitis of T9-T10 and T13-L3 with vertebral osteophytosis in a dog, 1221
Generalized cardiomegaly in a dog, 1327

X

Xylazine—Effect of xylazine on heart rate and arterial blood pressure in conscious dogs, as influenced by atropine, 4-aminopyridine, doxapram, and yohimbine, 153

Y

Yohimbine—Effect of xylazine on heart rate and arterial blood pressure in conscious dogs, as influenced by atropine, 4-aminopyridine, doxapram, and yohimbine, 153

Z

Zoonoses, 1984 AVMA activities summary, 338